MACHINE KNITTING MONTHLY

MAY '90
£1.40

FASHION
BLOSSOM OUT IN SUITS FOR SPRING

OFFERS
SUPER SAVINGS ON CONE KNITS

ANN KITE VIDEOS

COMPETITION
SWISS KNITTER & YARNS FROM AMBERYARN

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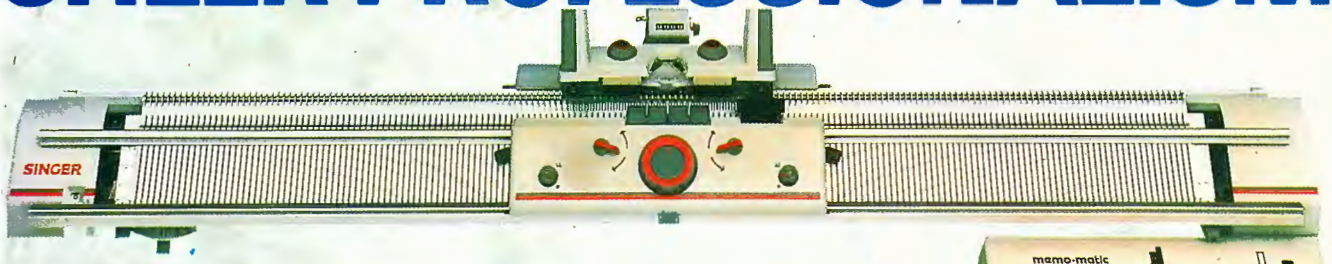
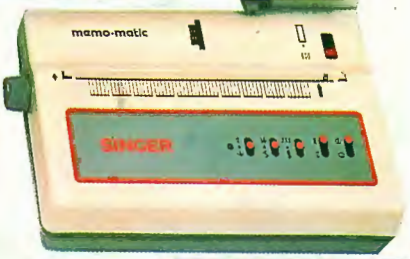
SHEER PROFESSIONALISM!



SINGER freestyle

THE COMPLETE HOME KNITTING CENTRE



The Singer Freestyle electronic knitting machine is precision made to very high standards. Its capabilities are endless yet so amazingly simple to use as the 'on board computer' takes care of even the most intricate patterns for you.

HOW DOES IT WORK?

In addition to the decorative and geometric patterns supplied any pattern can be drawn or traced in black on blank sheets (also supplied) and be fed into the Freestyle's electronic memory. Whatever you design can be reproduced in the colour of your choice – you can produce your own geometric patterns with the stick-on squares provided and use letter set kits available from stationers for really professional lettering.

Freestyle comes with everything you need to begin knitting right away including a comprehensive Learning Kit complete with free machine knitting patterns.

PURPOSE DESIGNED ACCESSORIES

Once you have mastered the basics you can choose from a range of purpose designed accessories:

- **INTARSIA CARRIAGE** – *Lets you knit as many colours as you want in one row. Light and easy to use, with a built in stitch dial.*
- **COMPACT MOTOR DRIVE** – *Attach the motor drive and this most popular attachment leaves your hands free, saves time and gives your knitting that 'shop bought' look.*
- **PATTERN DRIVER** – *Your pattern is drawn on to a sheet that moves through the driver so you can see exactly where you are and when to increase or decrease.*
- **KNITTING PATTERN COMPUTER** – *This clever accessory automatically works out the stitches to cast on, the rows to knit, and when to shape.*
- **GARTER CARRIAGE** – *The garter carriage enables you to knit a true garter stitch and also transfers from stocking stitch to rib and back again. It will also produce a variety of pattern stitches and lace designs.*

SEE THE FREESTYLE IN ACTION

The Singer Freestyle is just one of the range of knitting machines available from Singer Sewing & Knitting Centres throughout the country. Prices start from £599. The following centres will give an on the spot demonstration and can arrange local machine knitting courses:

108 George Street
ALTRINCHAM
061 928 2485

12 Princes Pavement
BIRKENHEAD
051 647 8040

7 St. James Barton
BRISTOL
0272 264071

94 Church St
CROYDON
01 688 1128

96 Bondgate
DARLINGTON
0325 463630

☆ Merry Hill Centre
DUDLEY (W. Midlands)
0384 265488

31A Castle Street
EDINBURGH
031 225 3593

12 Paris Street
EXETER
0392 73458

122-124 West Street
FAREHAM
0329 280499/283617

☆ Maylord Orchard
HEREFORD
0432 58986

125 High Street
LEWISHAM SE13
01 852 0211

12 Chestergate
MACCLESFIELD
0625 24646

Camp Hopson,
Northbrook Street
NEWBURY
0635 41972

43 Gold Street
NORTHAMPTON
0604 37810

4 Market Street
RHYL
0745 51175

113 East Street
SOUTHAMPTON
0703 224700

67 London Street
SOUTHPORT
0704 34688

20 New Bridge Street
TRURO
0872 72516

10A Camden Road
TUNBRIDGE WELLS
0892 42545

38 Thomas Street
WOOLWICH SE18
01 854 0124

☆ Quedam Centre
YEOVIL
0935 31185

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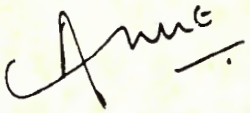
Dear Readers
For May we have blossomed out with a whole range of pretty Spring suits – two and three pieces to mix and match into your wardrobe for all occasions. In Perlé with the cotton look, there are crisp pastel suits or an elegant cardigan and lightweight textured acrylic makes lacy tops and skirts to pair as suits or partner sunny prints. Whether it's work, a holiday or party occasion, we have a design to 'suit' it.

Don't miss this second chance to order Ann Kite's videos at a very special price or the second part of her 'Teach In' on Jacquard knitting. The Duomatic owners are colour knitting too this month as Dorothy Gill makes intarsia work the subject of her article for Duomatic Update.

A date for your diary is May 10th to 13th when the National Exhibition Centre in Birmingham is the venue for the exhibition 'Sewing for Pleasure'. We shall be there and I look forward to saying 'Hello' to some of you on our stand.



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NEWS LINE

A mixed bag for you this time, so we hope there will be something for everyone.

QUALITY ANGORA

There's much interest in angora yarn at present and we've received many letters from readers asking for sources. One excellent, repeatable supply is Nina Miklin. Her *Angora* is suitable for hand and machine knitting (tension 10 on a standard gauge machine) and 260g will knit a basic, crew-neck sweater in size 14 (36").

There are ways of incorporating angora into a garment whilst not knitting the whole of the garment in this luxurious, but expensive yarn. Why not try a single motif in *Angora* or just a few rows of stripes? 50g will go a long way, especially as the tension can be tightened to around 7 for small areas.

There are eleven stunning shades in Nina Micklin's *Angora* and a selection of cone sizes from 50g to 350g. For full details (including latest prices), contact Nina Micklin at 104 Biddulph Mansion, Elgin Avenue, Maida Vale, London W9 1HU.

DESIGN BOARD

In autumn last year, the *Machine Knitters Design Board* was given a new look – it doubled its size!

The original board (marked out in a stitch proportioned grid) can still be used for designing garments in any thickness of yarn. The improvements the new board has to offer are additional numbering and a clearer punchcard section. The reverse side is also a grid-size replica of a mylar sheet which is especially useful for electronic machine owners.

The wipe-clean surface is useful and the Mark II board is £22 including VAT and p&p. The size remains the same (26" × 27") and the board is supplied with full instructions, record sheets, two water-soluble pens and a plastic carrying bag. The *Machine Knitter's Design Board* is available by mail order from The Machine Knitters Co., PO Box 10, Cowbridge, South Glamorgan CF7 7YY.

ABBREVIATIONS

alt = *alternate(ly)*
beg = *beginning*
ch = *chain*
cm = *centimetres*
cont = *continue(ing)*
dc = *double crochet*
dec = *decrease(ing)*
foll = *following*
g = *grams*
HP = *holding position*
in = *inch(es)*
inc = *increase(ing)*
K = *knit*
mm = *millimetres*
MT = *main tension*
MT−1, MT−2, MT−3 = *one, two, three full sizes tighter than main tension*
MT+1, MT+2, MT+3 = *one, two, three full sizes looser than main tension*
MY = *main yarn*
N(s) = *needle(s)*
NWP = *non working position*
P = *purl*
patt = *pattern*
RC = *row counter*
rem = *remain(ing)*
rep = *repeat*
ss = *stitch size*
st(s) = *stitch(es)*
st st = *stocking stitch*
tog = *together*
UWP = *upper working position*
WP = *working position*
WY = *waste yarn*

PINK CITY PATTERN BOOKS

Sarah Don is a well-established author of needlework books and she has recently set up a new publishing venture under the imprint of Pink City Pattern Books. Her first two titles are *Alphabets and Numerals* and *Flowers, Fruits and Trees.* They are beautifully practical handbooks for needlewomen, embroiderers and craftsmen alike. As many machine knitters know, books such as these can be an invaluable source of design inspiration material.

You may already know Sarah's work from similar books – *Fairisle Knitting* (Unwin Hyman), *Shetland Lace* (Unwin Hyman) and *Traditional Embroidered Samplers* (David and Charles). Her new books are available by mail order from Pink City Pattern Books, River View, Gray Lane, Desmesnes, Barnard Castle, Co Durham DL12 8PD. They cost £5.95 each plus 50p p&p.

KNITMASTER ELECTRONIC CHUNKY

Knitmaster claim a world first with the introduction of their new SK 890 chunky machine and its EC-1 control box.

The SK 890 chunky bed and carriage give a quality machine with many special features such as 110 needles with a 9mm gauge designed with large needle hook and wide needle pitch to produce garments in medium thick to super extra chunky yarns; electromagnetic needle selection making the carriage light; point cams with needle – one cam to produce a single motif; built-in weaving brushes; and the Masterglide system of friction-free rollers for a smoother, quieter operation.

With this machine the electronic patterning panel is presented as a separate system – the EC-1 Control Box. Connected to the machine, the EC-1 allows for design sheets up to 60 stitches wide and 150 rows long and the Knitmaster Design Controller PE-1 can be added to create patterns up to 110 stitches wide and 2,000 rows long. Six one-touch buttons add variations to the chosen pattern such as doubling the size, reversing the direction or making a mirror image and one of them even converts single bed patterns into Double Jacquard at a touch!

Extras that can extend the range of the Chunky SK 890 even further are the Ribbing Attachment SR 155, the Knit Radar KR 7, Design Controller PE-1 and Intarsia Carriage AG 30.

For further details or the address of your nearest dealer contact Knitmaster Ltd, 39-45 Coleaze Road, Kingston-upon-Thames, Surrey KT2 6DT.

LATEST LINKERS

News from Hague about the improvements they have just made to their linkers. The new models are the D280H hand-operated and D280E electric. A new smart design incorporates several modifications and a colour change to light and dark grey. A new point ring measure and point guard are fitted as standard and also included is the linking book by Diane Bennett. In spite of the update, the new models retail at the same prices as the earlier D10 and D10E. That has to be good news these days!

ABOUT YARNS

One of the nicest things about the Spring season is looking forward to the latest ideas from the spinners and here are just a few of them.

From BRAMWELL come **Glitz** and **Celebration 25** which both use undyed nylon to give a glitter effect. **Glitz** is a soft four ply with threads of silvery nylon on an acrylic background. **Celebration** is an acrylic three ply crepe with a little nylon to give a touch of contrast and lustre. There are 18 shades which are matched to those of **Hobby** and **Silky** and give the possibility of some

interesting combinations. **Celebration** has been named to celebrate Bramwell's 25 years of business. Our warm congratulations and best wishes for the next 25 years.

AMBERYARN have new colours this Spring for some of their popular ranges and two new qualities. **Glenfyne** is a four ply weight in wool and acrylic, selling on 400 gram cones in twelve shades and **Amber Baby** is a four ply in pastels. Made of 100% acrylic, it is supersoft yet extra hard wearing.

Meanwhile, up in Bingley, KING COLE have gone "Green". Their popular "Anti-Tickle" wool has been re-launched in 50 gram balls, both four ply and double knitting, with ball bands made from re-cycled paper and bearing the delightful slogan "Wool runs on grass". The message is none the less serious – that wool is the most environmentally friendly form of knitting yarn available.

For handknitting, PATONS have introduced a fringed yarn in pastels plus black and white with irridescent highlights. Called **Showboat**, it is a mix of acrylic and polyester. From SIRDAR there is a new baby yarn called Baby Love DK, a space-dyed slub yarn with random effect and a pure wool Bainin Aran in cream only.

TANGLEFREE INTARSIA

For handknitters, the answer to the maiden's prayer comes from the design of a Welsh school teacher, Anne Henderson. Faced with the common problem of tangled yarns when knitting Fair Isle or intarsia, she finally solved it with the Tanglefree. After five years of development she has now marketed her idea. How does it work? All you do is push a ball of wool on to one of the detachable plastic cones where it is securely held by the specially serrated surface. The yarn is then quickly led through one of the shaped holes in the upright "gate". The plastic gate capping is temporarily removed to make threading that much easier. Replacing this completes the operation. The Tanglefree costs £9.95 by mail order from Wyvern Yarn Ltd., Carmichael House, The Green, Inkberrow, Worcestershire WR7 4DZ.

SEWING FOR PLEASURE

Come and see us at the N.E.C. in Birmingham, 10th to 13th May, and you'll discover why a knitting magazine is at a sewing exhibition. We have more up our sleeve than some neat mattress stitching! Joking aside, there are plenty of areas where the two crafts overlap and the exhibition will provide sewers and knitters alike with inspiration, supplies, new ideas and latest developments.

Sewing for Pleasure is open from 10.00 am to 6.00 pm and until 9.00 pm on Friday with reduced admission after 5.00 pm. Tickets are available at the door at £4.00 for adults and the usual special/group reductions.

FREE TIME STUDIES

Wherever you live there is likely to be a nearby centre such as the local college or university where you can take a short course – a day, a weekend or a week – brushing up on your knitting or the craft of your choice. For those who are not so lucky, there are residential places which combine your studies with a short break.

Try your library for details of local courses but here are a few that have arrived in our mail:

LOUGHBOROUGH offers two Summer University courses that may interest you – "Learn to Spin", 29th July to 4th August and "Machine Knitting Workshop", 5th to 11th August. Both are tutored by Bea Poulter, residential accommodation is available and information can be obtained from Margaret Gill (0509) 222153 or 222162.

AYR COLLEGE is offering machine knitters ribberwork, jigsaw jumpers, electronic extras, petal slip stitch with well known lecturers such as Diane Bennett, Janet Nabney, Denise Musk and Dianne Wiggin. Also, a design workship with John Allen and options to try your hand at crochet or embroidery for knitwear. Gwen Merrick from Singer will also be teaching on Singer machines. For details of the course from 2nd to 6th July, contact Dianne Wiggin, Department of Catering, Fashion and Design, Ayr College, Newton Annexe, Ayr KA8 8HH. Tel: (0292) 286312.

MISSENDEN ABBEY in Buckinghamshire has a weekend course from 13th to 15th July with Jane Chadwick tutoring "Creative Designer Machine Knitting." Students are asked to take along their own single bed machine and postcards, pieces of old china etc., from which ideas can be developed for punchcard designs. Missenden Abbey also offers the City & Guilds Machine Knitting course on the basis of weekends and a week at Summer School which is wonderful for students who are not free for normal weekday studies. For full details, the address is Missenden Abbey, Great Missenden, Buckinghamshire HP16 0BD. Tel: 02406 6811.

LONDON'S WEST END is home to the new Centre for Embroidery, Fashion and Textile Studies. Write to them at 66 New Bond Street, London W1Y 9DF for their latest brochure of one day courses. Our sample copy for earlier in the year included topics such as embroidery, lace, cords and braids, textile preservation, textile jewellery and drawing so there has to be something here that will inspire the knitter who wants to add an extra dimension to her designs.

CORRECTION

We regret that some of the information we gave in our March issue Newsline, was incorrect. Our item about Kathleen Kinder's new soft back book, Techniques in Machine Knitting, contained some background details provided by her publisher which Kathleen was the first to ring and tell us are wrong.

To set the record straight, she served on the original working party which set the standard for the City & Guilds Machine Knitting Course but has never been an assessor and no longer runs the Dalesknit Centre.

JANUARY COMPETITION RESULT

WIN A SINGER BIG NINE was our invitation in the January issue and an awful lot of you accepted! With best foot forward and shoulder to the wheel you set about solving the clues to Bob Daw's "Spare Part Surgery" teaser and it was the KNITTED BROWS of Miss S. Holt in Doncaster that won the day.

Her's was the lucky postcard this time so she can look forward to receiving her Big Nine chunky knitting machine with the compliments of Singer.

The Book of NATURAL YARNS 89-90

Shetland Wool
2 ply & 4 ply m/w Wool
2 ply & 4 ply Botany Wool
Mercerised Cottons
Slub Cotton
Guernsey 5 ply Wool
Lakes Cotton/Linen
Fine Mohair
British Wools
3 ply Sock Wool
Chunky Mohairs
Aran Wool

NEW COLOURS FOR 1989-90

Two fabulous collections - Over 450 yarns/colours on cone

The SUMMIT Collection

A wonderful collection of unique fancy yarns for standard gauge machines, plus 43 colours of top quality Summit 4 ply Acrylic

Send **£2.50** (refundable) for these two collections, plus the free Book of Basic Patterns, or phone to use your credit card.

We also sell Knitmaster and Brother machines, and Hague linkers by mail order.

Many A Mickle

Many A Mickle (Ref. MB.), Brier Hey, Mytholmroyd, Hebden Bridge, W. Yorks HX7 5PF.
Telephone: (0422) 884749

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Established 1925

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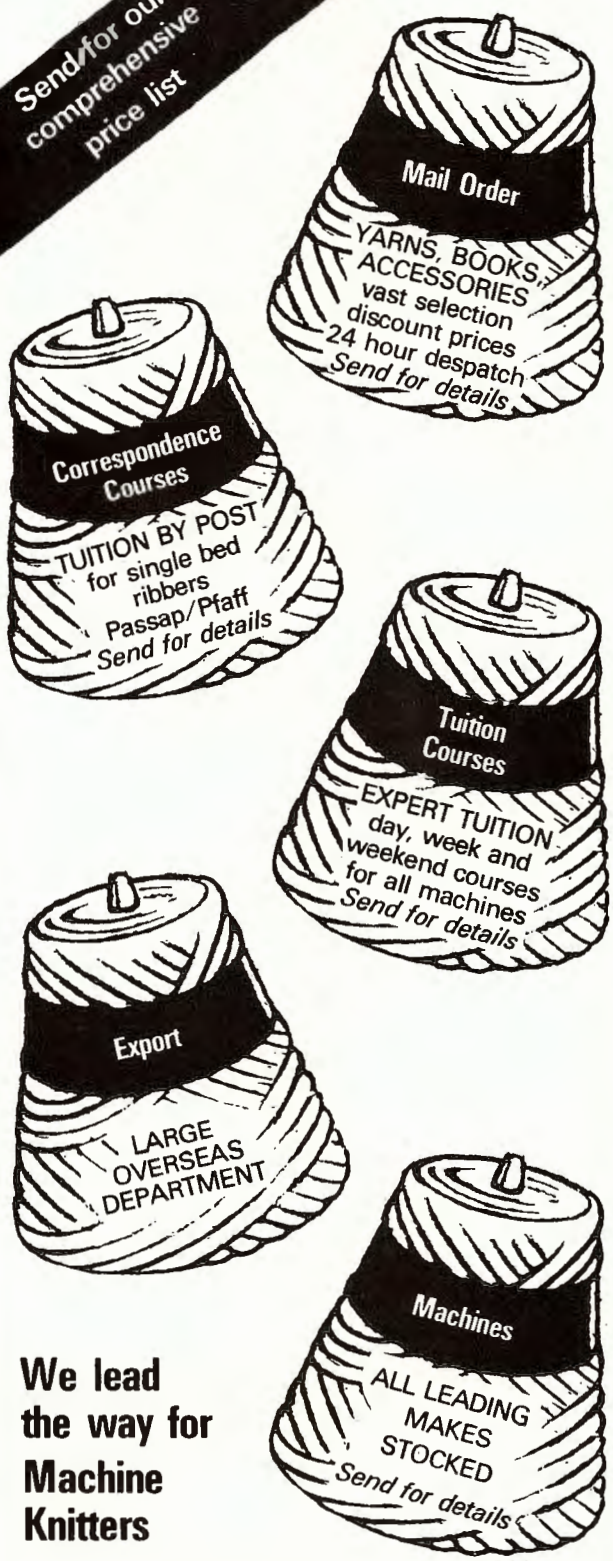

We lead the way for Machine Knitters

For full details of the above send to: ***Head Office:***

Metropolitan, The Pinfold, Poole, Nr Nantwich, Cheshire CW5 6AL or telephone: (0270) 628414
24 hour answering service.

Shop premises at:
321 Ashley Road, Parkstone, Poole BH14 0AP.
Tel: 0202 731111

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HELP LINE

Our problem page – not, we hope, an agony column but the place where you can ask the help of other readers who may have the answer to your problem. Please write in if you can help with this month's requests or let us have your own for a future issue. We shall pass the answers on.

Dear Anne
A big 'help', I'm afraid! Recently, a friend visited me with her copy of the A to Z of Machine Knitting (Sandra Williams Publication/ Machine Knitting World 1982). We looked through it at the time then, after my friend left, I put it in a 'safe place' on my sideboard until after Christmas.

When I went back to the book after Christmas, to my horror I found that all the pages of section A were stuck securely together and could not be separated without damage.

I've tried to get in touch with the publishers but they have no back numbers. Please could any of your readers help me to find the replacement pages or the set? Or does a reader have an unwanted copy?

I'm at my wits end and don't want to return the publication to my friend in its present condition. She looks after her books most carefully.

If anyone can help, can they please get in touch with me. Thank you.
Yours sincerely
Mrs T A Matravers
Exmouth, Devon

The A to Z of Machine Knitting is out of print, so Mrs Matravers' only hope is an unwanted copy. If you can help, drop me a line and I'll put you in touch.

Dear Anne
My sister has bought an Orion knitting machine. I managed to get it working, it's not unlike my Passap, but we have no instructions at all. I've written to the makers in Leichtenstein but have had no reply. Perhaps they are not in business any more.

Would any reader have an instruction book hidden away somewhere, please? Help!

I really look forward to my MKM each month. It's interesting, informative and – above all – friendly. May I also say how helpful Dorothy Gill has been, especially when I needed parts for my Passap. Thank you again, I do hope someone can help.
Yours sincerely
Mrs Pat Johnson
Tunbridge Wells, Kent

Dear Anne
Perhaps I can be of use to someone looking for instructions for the Knitmaster 302 machine. I have an instruction manual (printed in Japan), an instruction book (printed in England) and some pattern cards – but now no 302! I have snce bought a Brother 891 machine, so the books are spare if anyone requires them.

I've just started getting the magazine on a regular basis and find it very useful.
Yours sincerely
Clifford Walker
Scarborough, North Yorkshire

Thank you very much for your kind offer, Clifford. Drop me a line if you'd like me to put you in touch.

Dear Anne
I have a Toyota 895 that I really love but I can't find any 12 stitch blank punchcards. I'd be very grateful if you could let me know where I can obtain some as I'd love to punch my own patterns.
Yours hopefully
Mrs D Lamb
Irlam, Manchester

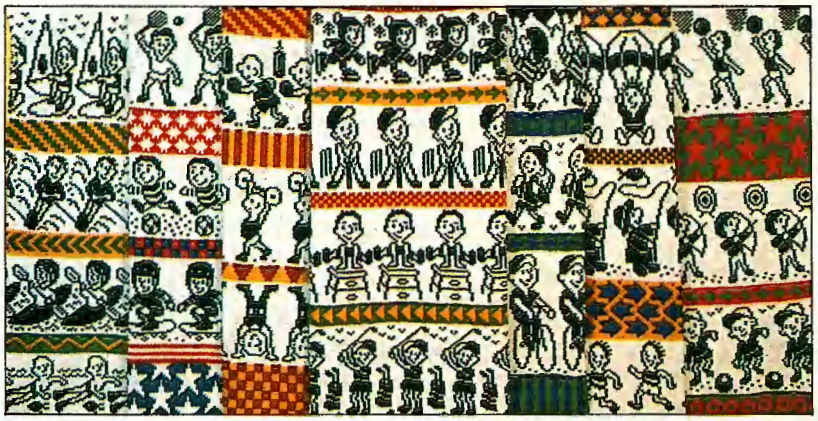
Blank cards for your machine are available from the Toyota shop at 34 High Street, Bromley, Kent BR1 1EA. They were in stock when I telephoned, Mrs Lamb so give them a ring on 01-460 4562. They'll be pleased to help.

Dear Anne
I'd be grateful if you could let me know if there's a club nearer to my home here in Upper Warfedale than Bradford.
Yours sincerely
Roger Sinton
Skipton, North Yorkshire

We've no club on our Directory list, Roger, so I'm happy to print your letter in the hope that a secretary of a local club may write. It's home ground for me becasue I come from Clitheroe, but even Clitheroe is a 'hike' from Skipton. Drop me a line if you run a club near Roger, please.

Denys Brunton Designer Yarns
The yarns that go a long way

WENDY PHILLIPS PICTURE KNITTING BOOKS



MAKE A JOLLY SWEATER FOR THE SPORTSMAN IN YOUR LIFE!

JOLLY SPORTSMEN contains 24 cartoon style characters enjoying 24 different sports.

Illustrated in colour, 24 stitch punchcard and electronic graphs included £3.95.

TINY (12 stitch) PICTURES FOR TINY FOLK

SMALL WORLD contains 50 (12 stitch) pictures plus 16 easy garment patterns for bears and dolls.

Illustrated in colour 12 & 24 stitch punchcard and electronic graphs included £3.95.

24 STITCH PUNCHCARD COLLECTION
Electronic graphs **NOT** included

28 page books, fully illustrated in black and white

TEDDY BEARS – 20 busy bears including Fishing Bear, Fairy Bear, Skating Bear, Gourmet Bear and many more. £2.50

ALPHABET ZOO – 28 animals including bat, camel, dinosaur, fox, giraffe, goat, hippo, koala, monkey, panda, sheep, wallaby, reindeer, zebra. £2.50

ANIMAL MOTIFS – 40 designs including pig, cow, sheep, mouse, thrush, squirrel, hedgehog, owl, hawk, ladybird, whale, penguin, polar bear, rabbits. £2.50

A CAT'S LIFE – 30 domestic cats at work, rest and play, including Siamese, Persian and tabby. £2.50

JUST DOGS – 34 different breeds including Scottie, Alsatian, Dachshund, Afghan, Dalmatian, Greyhound, Collies, Old English Sheepdog, Terriers, St. Bernard, Poodle. £2.50

OUTDOOR SPORT – 30 designs (11 different sports). Golf, football, ski-ing, jogging, bowls, B.M.X., motor racing, show jumping. £2.50

INDOOR GAMES – 40 designs (16 different games). Darts, chess, cards, gymnastics, badminton, karate, fencing, ice-skating, ice hockey, trampoline, diving. £2.50

CARS, TRUCKS, TRAINS, BOATS & PLANES – 40 designs including buses, tractors, traction engines, steam trains, fire engine, cement lorry, ambulance, helicopters, jet plane, steamship, yacht. £2.50

FLOWERS, FRUITS & VEGETABLES – 40 designs including pansy, daffodil, thistle, rambling rose, poppy, clematis, primrose, violet, bluebell, oak, chestnut, apple, pear, plum, cherry, grapes, lettuce, radish, onion, carrot, cauliflower. £2.50

MERRY CHRISTMAS – 50 festive designs including Santa, robin, reindeer, snowman, fairy, holly, mistletoe, candles. £2.50

WHERE DID YOU GET THAT HAT? – With her basic hat pattern Wendy describes tried and tested ways to create a small business from the sale of knitted bobble hats. (Pattern for single bed machines suitable for beginners.) Designs include English Rose, Scottish Lion, Welsh Dragon, soldiers, lorries, motor cycle stunt rider, anchor, seascape, horse's head. £3.95

COLOUR COLLECTION
Containing punchcard and electronic graphs

32 page books, all designs shown in full colour on the cover

LITTLE PICTURES – 100 small (12 stitch) pictures suitable for 12 and 24 stitch punchcard, electronic and chunky machines. Designs include liquorice allsorts, farm and woodland animals, teddy bears, cars, boats, trains. £3.95

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10/3

1

1 TUCK STITCH TOP

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard machines with or without a ribber. We used a Toyota 950.

MATERIALS

C.Y.S. Algarve Perlé.
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone in Coral (MY).
GARMENT WEIGHT
Finished garment in fourth size weighs 260g.

The fibre content of this yarn is 100% Acrylic. For further details about local or mail order stockists, please write to C.Y.S., 4 & 6, St. Mary's Gate, Rochdale, Lancs OL16 1DZ.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

To fit chest/bust 71 [76, 82, 87, 92, 97, 102, 107] cm, 28 [30, 32, 34, 36, 38, 40, 42] in.
Actual size 76 [82, 87, 92, 97, 102, 108, 113] cm, 30 [32¼, 34¼, 36¼, 38¼, 40¼, 42½, 44½] in.
Length to shoulder 47 [49, 51, 52, 53, 54, 55, 56] cm, 18½ [19¼, 20, 20½, 20¾, 21¼, 21¾, 22] in.
Sleeve seam 8 [8, 9, 9, 9, 9, 10, 10] cm, 3 [3, 3½, 3½, 3½, 3½, 4, 4] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

25 stitches and 54 rows to 10 cm, 4 in measured over tuck stitch pattern (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used purl side of knitting as right side of garment. Punch card, as shown, before starting to knit. We used Toyota card 128 from their Knitting Pattern II book and reproduce it courtesy of Toyota. For further details about Toyota cards and machines, please write to Aisin Co. (UK) Ltd., 34 High Street, Bromley, Kent BR1 1EA.

BACK

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 101 [107, 115, 121, 129, 135, 143, 149] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–3/MT–3, K 30 rows. Transfer sts for st st. Using WY, K a few rows and release from machine.
MACHINES WITHOUT RIBBER
Push 101 [107, 113, 119, 128, 134, 143, 149] Ns to WP. *Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows, ending with carriage at right. Set RC at 000*. Using MT–2 and MY, K 51 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. K 1 row. Using WY, K a few rows and release from machine.
ALL MACHINES
Push 48 [52, 55, 58, 61, 64, 68, 71] Ns at left and 49 [53, 56, 59, 62, 65, 69, 72] Ns at right of centre 0 to WP. 97 [105, 111, 117, 123, 129, 137, 143] Ns. With carriage at right, replace last row of sts worked in MY on to Ns, gathering evenly. Insert punch-card and lock on first row. Set carriage for patt. Set RC at 000. Using MT, K 1 row. Release card and cont in tuck st patt. K 135 [135, 135, 135, 139, 139, 145, 145] rows. RC shows 136 [136, 136, 136, 140, 140, 146, 146] and work measures 32 [32, 32, 32, 33, 33, 34, 34] cm, 12½ [12½, 12½, 12½, 13, 13, 13½, 13½] in. Place a marker at each end.
SHAPE ARMHOLES
Dec 1 st at each end of next and every foll alt row, until 77 [85, 91, 97, 103, 109, 117, 123] sts rem **. K 63 [73, 83, 89, 89, 95, 95, 101] rows. RC shows 218 [228, 238, 244, 248, 254, 260, 266] and work measures 47 [49, 51, 52, 53, 54, 55, 56] cm, 18½ [19¼, 20, 20½, 20¾, 21¼, 21¾, 22] in.
SHAPE SHOULDERS
Cast off 10 [12, 12, 13, 15, 16, 18, 19] sts at beg of next 2 rows and 10 [11, 12, 13, 14, 15, 17, 18] sts at beg of foll 2 rows. Cast off rem 37 [39, 43, 45, 45, 47, 47, 49] sts.

FRONT

Work as for back to **. K 35 [45, 51, 57, 57, 63, 57, 63] rows. 28 [28, 32, 32, 32, 32, 38, 38] rows less have been worked to shoulder than on back.
SHAPE NECK
Note patt row on card. Using a length of MY, cast off centre 21 [23, 25, 27, 27, 29, 27, 29] sts. Using nylon cord, K 28 [31, 33, 35, 38, 40, 45, 47] sts at left by hand, taking Ns down to NWP. Cont on rem sts for first side. K 1 row. Dec 1 st at neck edge on next and every foll alt row until 20 [23, 24, 26, 29, 31, 35, 37] sts rem. K 12 [12, 14, 14, 14, 14, 18, 18] rows.
SHAPE SHOULDER
Cast off 10 [12, 12, 13, 15, 16, 18, 19] sts at beg of next row. K 1 row. Cast off rem 10 [11, 12, 13, 14, 15, 17, 18] sts. With carriage at right, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Set carriage for patt and take to left without knitting. Release card and cont in tuck st patt. Finish to correspond with first side, reversing shapings.

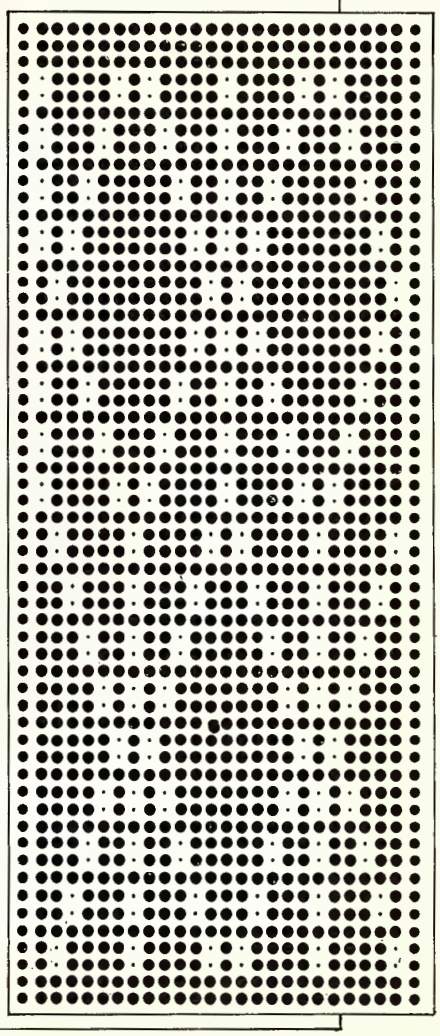
NECKBAND

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 105 [111, 119, 125, 125, 131, 135, 141] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–3/MT–3; K 8 rows. Transfer sts for st st. K 1 row. Using WY, K a few rows and release from machine.
MACHINES WITHOUT RIBBER
Push 101 [107, 116, 122, 122, 128, 131, 137] Ns to WP. Work as for back from * to *. Using MT–2 and MY, K 15 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. K 1 row. Using WY, K a few rows and release from machine.

ARMHOLE BANDS (TWO)

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 91

10►



Skirt, bangle, NEXT. Hat, THE HAT SHOP.

◀9 [101, 113, 119, 119, 125, 125, 131] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–3/MT–3, K 8 rows. Transfer sts for st st. K 1 row. Using WY, K a few rows and release from machine.

MACHINES WITHOUT RIBBER

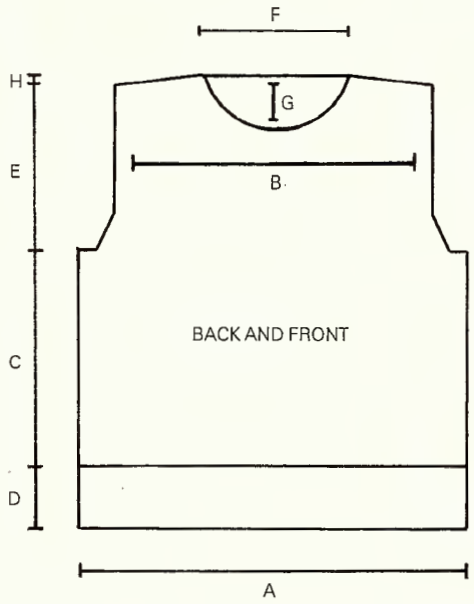
Push 86 [98, 110, 119, 119, 122, 122, 128] Ns to WP. Work as for back from * to *. Using MT–2 and MY, K 15 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. K 1 row. Using WY, K a few rows and release from machine.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join shoulder and neckband seams. Pin neckband and armhole bands into position. Unravelling WY as required, backstitch through open loops of last row worked in MY. Join side and armhole band seams.



A = 38.5 [42, 44, 46.5, 49, 51.5, 54.5, 57] cm
B = 30.5 [34, 36, 38.5, 41, 43.5, 46.5, 49] cm
C = 25 [25, 25, 25, 26, 26, 27, 27] cm
D = 7 cm
E = 15 [17, 19, 20, 20, 21, 21, 22] cm
F = 14.5 [15.5, 17, 18, 18, 18.5, 18.5, 19.5] cm
G = 5 [5, 6, 6, 6, 6, 7, 7] cm
H = 1 cm

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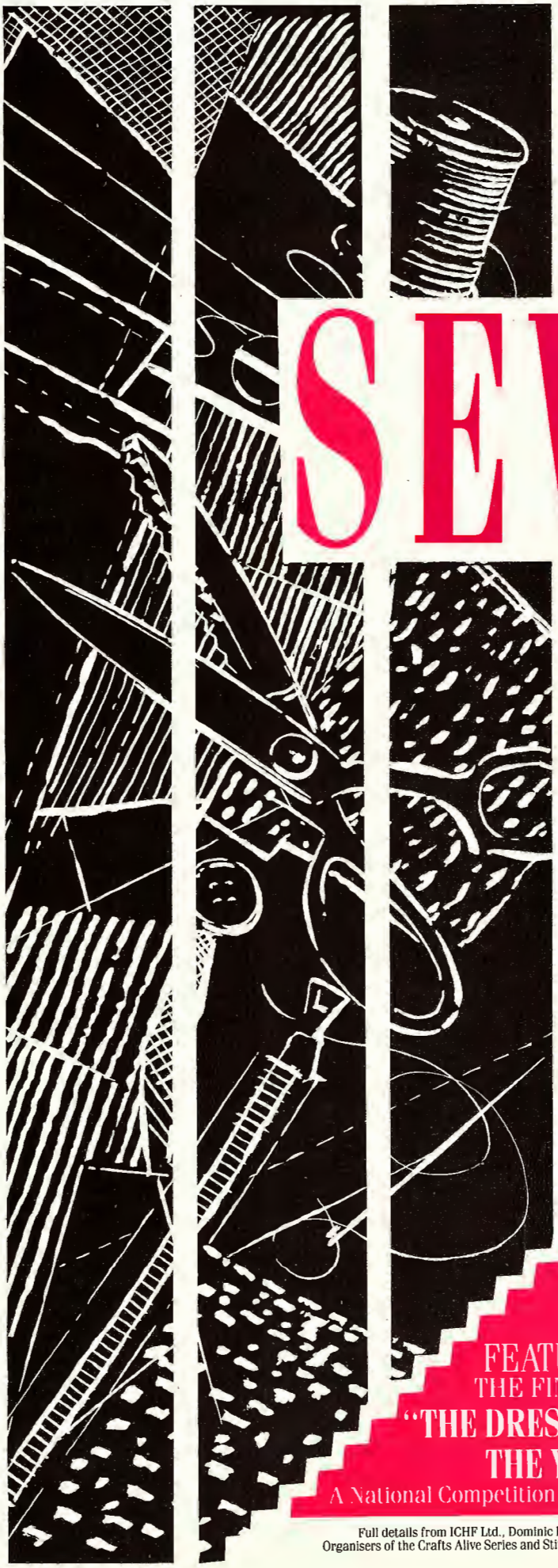

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LATCH ON

"DATAKNIT" COMPUTER PROGRAMME II

Last month Joan Lafferty and her son Alan talked about the Dataknit programme produced by Clwyd Technics from the technical aspect in setting the system to the computer and the electronic knitting machine. Now they continue with their experience of using it.

Joan Lafferty

It certainly needs an electronics expert to install the package; however competent one is with the workings of the computer and the electronic knitting machine it is not a job for the enthusiastic amateur. However, Clwyd Technics will help with the initial installation if necessary. We mentioned in the last article that the leads for attaching the Dataknit interface box to the knitting machine and computer were rather short. In practise the lead to the knitting machine was short to the point of being inadequate, at least for our purposes. This interface lead comes out of the knitting machine somewhere near the yarn mast. I imagine the inventor sat down at a "plain" knitting machine and put his little "box of tricks" on the machine table adjacent to the yarn mast. However, when it comes to the "practical" knitter, there is a full-size KnitLeader to the left of the yarn mast. Then the guides for the mylar sheet are to the right and, of course, the sheet itself, when in use. Again on the extreme right is the bracket for the electronics box for use with the garter carriage. I choose to keep mine on the bracket permanently. Where is our Clwyd "box" to go? We solved the problem after a fashion by putting it on top of the machine lid. I store my lid across the "undercarriage" of the machine table; in this position it makes an excellent shelf for the lace carriage and the various combs – both main bed and ribber ones, not forgetting the oily rag which is ever to hand! So with one little tug on the appropriate comb our interface box comes tumbling off. It cannot be a good thing to have this suspended by its leads. I rather think it would not be impossible to design a sort of shelf to screw under the back of the machine table to house this interface box.

The wires from the computer to this box are also rather short, which means that the knitting machine must be at right angles to and almost touching the computer table. This is not quite so difficult, but using the extension arms is a matter for extreme accuracy in placing the two tables. It is even more of a delicate balance when the ribber is attached. When knitting a wide garment the carriage is within millimetres of the computer table. However, possibly this is the fault of our particular table, rather than the knitting package. All this is being rather pedantic, but it is essential to be comfortable at the knitting machine, or one's concentration is lost.

We had great fun composing our drawing. We soon found that too much detail is unnecessary, a drawback even. Remember that knitted stitch is much wider than a line drawn with a pencil, or in our case a cursor on the television screen! However, once drawn it was faithfully reproduced both on the printer and on the knitting. It is possible to correct on the screen with a cursor, as is the way with any computer corrections. However, in this case the cursor was rather small and not easy to see, but this might be because the operator was wearing bifocals!

When it came to the instructions "how to knit a swatch" I followed faithfully the directions for the computer, then the instructions for the knitting machine. I was about half way through when it dawned on me that I was only being given detailed instructions to cast on using the weaving brush method.

There is nothing special about the way a tension swatch is cast on – it works equally well with the cast on comb or the nylon cord, or

even 'e' wrap if one is so inclined. Surely if one has got to an electronic machine plus a computer programme one is far enough advanced to be able to follow an instruction "Cast on a tension piece and knit a few rows in waste yarn"? It was unfortunate that I forgot that I had updated my 950 machine to 950i. I was therefore sent instructions for the 950, so it was entirely my own stupid fault that I could not make the knitting part work at the first attempt. Having received the instructions for the 950i I followed these to the letter, only to find that I could still not get the needles selected.

It dawned on me eventually that there was one important step missing. I was instructed to tap in 777 and press CF (which I always thought meant 'card forward', but Clwyd call it 'card form' – not that it matters!). Anyway, pressing CF means the card is read by the knitting machine. The programme is now in the memory. However the computer in the knitting machine needs the instruction 990 before it will accept the variables for width and length of the pattern. This is not mentioned in the instructions. Having worked this out for myself our design was knitted exactly as we drew it, although I can't see either of us wearing this "masterpiece of design" – we didn't like it by the time we had seen it dozens of times! Which just shows our bad taste!

It is inevitable that this system will be compared with the PPD, which is the Brother system of design. The PPD uses a television screen, but has its own control box instead of the BBC computer keyboard. This is used for drawing the designs on the screen. The PPD also needs a special disc drive marketed only by Brother. Using PPD one can make adjustments to the built-in patterns as well as one's own. Presumably the Clwyd system cannot override the patterns already built in to the electronic machines. However, it is questionable whether one would want to do this in any case. A designer will be using either system to make his/her own designs, or so I should imagine. So if one has the computer and disc drive already, the Clwyd system would seem to be the most suitable; if one has neither the PPD might fit the bill.

Both PPD and the Dataknit can be lined to a suitable printer, if required. However, there is one area where the two do not compare. The PPD allots numbers for the designs, which override the same numbers which have been allocated for mylar sheets. So if one has favourite patterns alredy drawn out on mylar sheets these need to be put on to discs or they will be lost – not an impossible task, but time consuming. The Clwyd system works quite separately, each design being given a name on the computer.

So whatever is on a mylar sheet can be recalled from the sheet in the usual way. Again this can all be put on disc should one wish to do the extra work.

The Dataknit programme does all that is claimed for it and would be of considerable assistance to the designer. I have had some small experience of testing designs; my daughter has bright ideas which need to be knitted and then altered, which means more and more knitted pieces until she has got it right. It would obviously be much quicker to see the design (and alter it) on the TV screen before starting to knit. It was unfortunate that, after all my testing with the Dataknit package, the computer workings of my Brother 950i machine picked up a gremlin. I cannot say that this was the fault of the Dataknit programme – I have had "gremlin" trouble before with my 910 and 950 machines – but not often, let me hasten to add. However, the Brother engineer called with commendable promptness and had it sorted out in no time at all.

Somehow I can't see myself having original designs published in Machine Knitting Monthly (regular designers can breathe a sigh of relief!). In theory I might well "have a go". In practise there are just not enough hours in the day!

PS: Since all my experimenting on the Brother machine, I have seen the Clwyd "set up" for the Knitmaster machines. There seems to be much more lead on the interface box and of course there are no extension arms to worry about. The Knitmaster "box of tricks" comes on the opposite end of the machine, so this does not get in the way and there was, of course, no massive KnitLeader taking up table space. However, I cannot say what might have happened regarding the ribber, because the demonstrator was obviously not using one.

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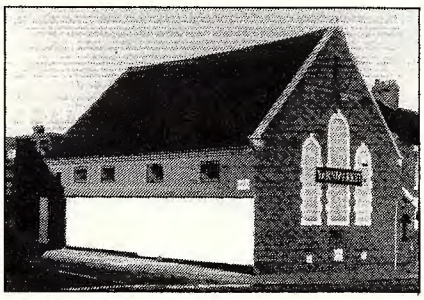

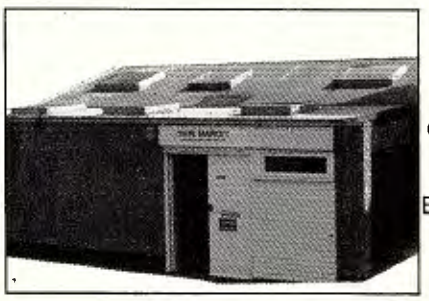

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2A TUCK STITCH TOP

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with or without a ribber.

MATERIALS

C.Y.S. Algarve 4-ply Perlé.
1 [1, 1, 2, 2, 2, 2, 2] × 500g cone in Peach (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone in White (C).
12 buttons.

GARMENT WEIGHT
Finished garment in second size weighs 540g.

The fibre content of this yarn is 100% Acrylic. For further details about local or mail order stockists, please write to C.Y.S., 4 & 6, St. Mary's Gate, Rochdale, Lancs OL16 1DZ.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 96 [101, 106, 111, 116, 121, 126, 131] cm, 37¾ [39¾, 41¾, 43¾, 45¾, 47¾, 49½, 51½] in.
Length to shoulder 61 [61, 62, 62, 63, 63, 64, 64] cm, 24 [24, 24½, 24½, 24¾, 24¾, 25¼, 25¼] in.
Sleeve seam 45 [45, 46, 46, 47, 47, 48, 48] cm, 17¾ [17¾, 18¼, 18¼, 18½, 18½, 19, 19] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

25 stitches and 54 rows to 10 cm, 4 in measured over tuck stitch pattern (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used purl side of knitting as right side of garment. Punch card, as shown, before starting to knit. Fill in pattern card, as shown, before starting to knit. We used a Toyota card for this pattern and reproduce it courtesy of Toyota. For further information about Toyota cards and machines, please write to Aisin Company (UK) Limited, 34 High Street, Bromley, Kent BR1 1EA.

KNITMASTER ELECTRONIC MACHINES
Set pattern width indicator at 6. Place needle 1 cam at centre 0 and point cams 2 Ns in from each edge. Press button 1 (right light on) and button 2 (right light on 560 machines, left light on 580 machines).

BROTHER ELECTRONIC MACHINES
Position pattern each side of centre 0.

LEFT BACK SIDE PANEL

Push 27 [30, 33, 36, 39, 42, 45, 48] Ns at left and 3 Ns at right of centre 0 to WP. * 30 [33, 36, 39, 42, 45, 48, 51] Ns. Insert card and lock on first row. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MY, K 1 row. Release card and cont in tuck st patt. K 183 rows. Place marker at left edge. K 119 [119, 125, 125, 131, 131, 135, 135] rows. RC shows 303 [303, 309, 309, 315, 315, 319, 319]. Cast off *.

RIGHT BACK SIDE PANEL

Push 4 Ns at left and 26 [29, 32, 35, 38, 41, 44, 47] Ns at right of centre 0 to WP. Work as for left back side panel from * to * reading left for right and right for left.

RIGHT FRONT SIDE PANEL

Work as for left back side panel.

LEFT FRONT SIDE PANEL

Work as for right back side panel.

CENTRE BACK PANEL

Push 28 Ns at left and 27 Ns at right of centre 0 to WP. 55 Ns. Insert card and lock on first row. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MY, K 1 row. Release card and cont in tuck st patt *. K 271 [271, 277, 277, 283, 283, 287, 287] rows. Cont in st st, K 1 row. RC shows 273 [273, 279, 279, 285, 285, 289, 289]. Using WY, K a few rows and release from machine.

CENTRE FRONT PANEL

Work as for centre back panel to *. K 247 [247, 253, 253, 259, 259, 263, 263] rows. Cont in st st. K 1 row. RC shows 249 [249, 255, 255, 261, 261, 265, 265]. Using WY, K a few rows and release from machine.

SLEEVES

Push 36 [36, 38, 38, 41, 41, 43, 43] Ns at left and 35 [35, 37, 37, 40, 40, 42, 42] Ns at right of centre 0 to WP. 71 [71, 75, 75, 81, 81, 85, 85] Ns. Insert card and lock on first row. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MY, K 1 row. Release card and cont in tuck st patt. Shape sides by inc 1 st at each end of every 10th [10th, 11th, 11th, 11th, 11th, 11th, 11th] row until there are 111 [111, 115, 115, 121, 121, 125, 125] sts. K 14 [14, 0, 0, 6, 6, 12, 12] rows. Cont in st st, K 1 row. RC shows 216 [216, 222, 222, 228, 228, 234, 234] and work measures 40 [40, 41, 41, 42, 42, 43, 43] cm, 15¾ [15¾, 16¼, 16¼, 16½, 16½, 17, 17] in. Cast off.

RIBBED INSETS (MAKE 4)

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using C, cast on 158 [158, 161, 161, 164, 164, 167, 167] sts in 1×1 rib. * K 3 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−4/MT−4, K 11 rows. Transfer sts for st st. K 1 row *.

MACHINES WITHOUT RIBBER
Push 158 [158, 161, 161, 164, 164, 167, 167] Ns to WP. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT−2 and C, K 23 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. K 1 row *.

ALL MACHINES
with K side facing, pick up sts along unmarked side edge of side panels. Using MT, K 1 row. Cast off.

NECKBANDS

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using C, cast on 55 sts in 1×1 rib. Work as for ribbed insets from * to *.

MACHINES WITHOUT RIBBER
Push 56 Ns to WP. Work as for ribbed insets from * to *. Dec 1 st. 55 sts.

ALL MACHINES
Work with K side facing, replace sts from top edge of centre panel on to Ns. Using MT, K 1 row. Cast off.

WELTS

Place marker 3 cm, 1¼ in down from top edge on back ribbed insets and 7.5 cm, 3 in down from top edge of front ribbed insets. Join centre panels to ribbed insets up to markers.

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using C, cast on 126 [132, 138, 146, 152, 158, 164, 172] sts in 1×1 rib. * K 3 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−4/MT−4, K 22 rows. Transfer sts for st st. K 1 row *.

MACHINES WITHOUT RIBBER
Push 125 [131, 137, 146, 152, 158, 164, 173] Ns to WP. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT−2 and C, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. K 1 row *.

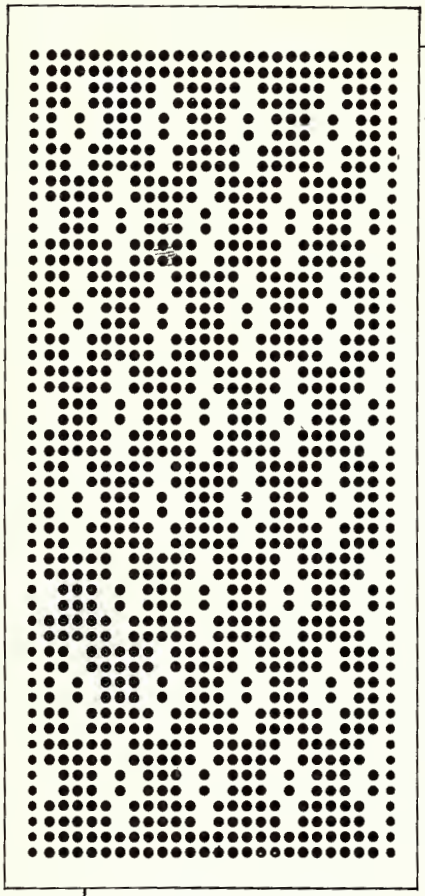
ALL MACHINES
With wrong side facing, pick up sts along lower edge and place on to Ns gathering evenly. Using MT, k 1 row. Cast off.

CUFFS

MACHINES WITH RIBBER
With ribber in position and

Gloves, BHS. Jewellery, NEXT.

2



◀14
carriage at right, set machine for 1×1 rib. Using C, cast on 56 [56, 60, 60, 62, 62, 66, 66] sts in 1×1 rib. Work as for welts from * to *.

MACHINES WITHOUT RIBBER
Push 56 (56, 59, 59, 62, 62, 65, 65) Ns to WP. Work as for welts from * to *.

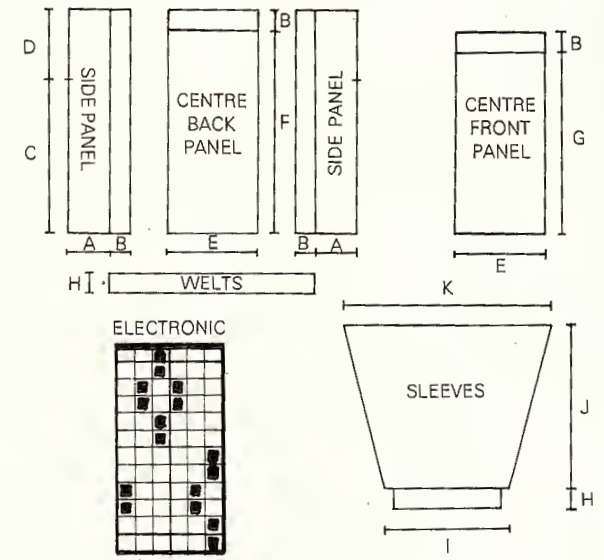
ALL MACHINES
With K side facing, replace sts from lower edge of sleeve on to Ns gathering evenly. Using MT, K 1 row. Cast off.

PRESSING

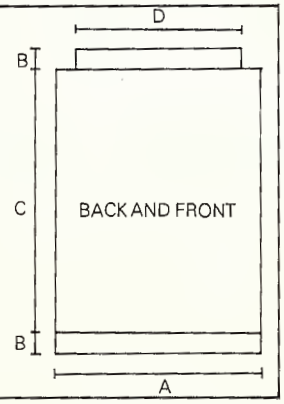
With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join shoulder seams. Set in sleeves between markers. Join side and sleeve seams. Sew on buttons as shown in photograph.



A = 11.75 [13, 14.25, 15.5, 16.75, 18, 19, 20.25] cm
B = 2.5 cm
C = 34 cm
D = 22 [22, 23, 23, 24, 24, 25, 25] cm
E = 22 cm
F = 50.5 [50.5, 51.5, 51.5, 52.5, 52.5, 53.5, 53.5] cm
G = 46 [46, 47, 47, 48, 48, 49, 49] cm
H = 5 cm
I = 28 [28, 30, 30, 32, 32, 34, 34] cm
J = 40 [40, 41, 41, 42, 42, 43, 43] cm
K = 44 [44, 46, 46, 48, 48, 50, 50] cm



A = 49.5 [51.5, 54, 57, 59.5, 61.5, 64, 67] cm
B = 3 cm
C = 67 cm
D = 34 [36.5, 39. 41.5, 44, 46.5, 49, 51.5] cm

2B TWO PANELLED TUCK STITCH SKIRT

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines.

MATERIALS

C.Y.S. Algarve 4-ply Perlé.
1 [1, 1, 1, 2, 2, 2, 2] × 500g cones in Peach (MY).
Elastic to fit waist.

GARMENT WEIGHT
Finished garment in second size weighs 410g.

The fibre content of this yarn is 100% Acrylic. For further details about local or mail order stockists, please write to C. Y. S., 4 & 6, St. Mary's Gate, Rochdale, Lancashire OL16 1DZ.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

To fit hips 87 [92, 97, 102, 107, 112, 117, 122] cm, 34 [36, 38, 40, 42, 44, 46, 48] in.
Actual size 97 [102, 107, 113, 117, 122, 127, 133] cm, 38¼ [40¼, 42¼, 44½, 46, 48, 50, 52¼] in.
Knitted length to waistband 67 cm, 26½ in (adjustable).

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

26 stitches and 60 rows to 10 cm, 4 in measured over tuck stitch pattern (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

KNITTING NOTES

We used purl side of knitting as right side of garment. Two strands of yarn are used together throughout. Punch card, as shown, before starting to knit. Fill in pattern card, as shown, before starting to knit.

KNITMASTER ELECTRONIC MACHINES
Set pattern width indicator at 4. Place needle 1 cam at centre 0 and point cams 2 Ns in from each edge. Press button 1 (right light on) and button 2 (right light on 560 machines, left light on 580 machines).

BROTHER ELECTRONIC MACHINES
Position pattern each side of centre 0.

BACK AND FRONT ALIKE

Push 65 [68, 71, 75, 78, 81, 84, 88] Ns at left and 64 [67, 70, 74, 77, 80, 83, 87] Ns at right of centre 0 to WP. 129 [135, 141, 149, 155, 161, 167, 175] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT and MY, K 10 rows. Insert card and lock on first row. K 2 rows. Set RC at 000. Release card and cont in tuck st patt. K 402 rows. Adjust length at this stage if desired. Using WY, K a few rows in st st and release from machine.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

WAISTBANDS (TWO ALIKE)

Push 96 [103, 110, 117, 124, 131, 138, 145] Ns to WP. With P side facing, replace sts from upper edge on to Ns gathering evenly. Unravel WY. Set RC at 000. Using MT–1 and MY, K 25 rows. Using WY, K a few rows and release from machine.

MAKING UP

Join side seams, leaving an opening in waistband. Fold waistband in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in MY. Insert elastic into waistband and join ends securely. Close opening. Turn up 12 rows at lower edge and catch down loops on inside.

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LET'S KNIT LACE — PART 4

In the last three articles in this series, Diane has described in detail how to knit various types of lace fabric. This month she explains how to use these to make lace garments.

Diane Bennett

I hope that some of my readers who have never used their machines to knit lace may have been encouraged by my articles to experiment. However, knitting a sample of lacy fabric is usually quite different from knitting a garment.

Before attempting to knit any type of lace garment, always check the machine needles. The lace carriage transfers the stitch from one needle to another by moving the needle which has the stitch on it up and over the adjacent sinker. The next needle moves forward and collects the stitch from this needle. If either of these needles is not in exactly the right position the stitch will be dropped. By replacing any bent needles, this can be avoided. Check also for damaged latches, since these can also cause problems with the transfer of stitches.

When you are ready to knit a lace garment, start with something very simple, which does not require any shaping. Try, for example, a scarf or stole. Select a lace pattern and knit a tension square. Use this to calculate the number of stitches and rows required. In order to weight the knitting evenly, cast on with waste yarn first. Knit a few rows, then knit in the nylon cord. E wrap cast on with the main yarn and knit at least two rows with the main carriage before starting the lace pattern. Weight the knitting carefully, moving the weights up every thirty or forty rows. Knit at least two rows plain at the end of the lace pattern before casting off loosely. Pin out the scarf or stole to shape, then press or steam until flat and fringe the ends. The yarn should ideally be a two or three ply and since only about two ounces is needed for a scarf, this is not only useful practice for knitting lace but also a very good way of using up oddments of yarn.

When knitting a scarf or stole, the edge of knitting is neater if several stitches are knitted on each side without lace holes, as shown in Fig.1. This is also useful when knitting jumpers, cardigans and so on because the seams can be joined very neatly.

Most Brother machines have lace carriages which do not select the end needles of the row, to avoid dropped stitches. However, owners of the 830 punchcard machine have to watch the needles and push back any end needle which is selected. Owners of punchcard machines should also use this method for wider plain edges – decide how many plain stitches are required and then if any of these needles is selected when moving the lace carriage, push the needle back to normal working position. - Alternatively, some of the more recent models include lace cams which block out the lace pattern and these can be used to exclude the pattern from the edge of the knitting automatically.

Owners of electronic machines can programme the pattern as an A motif to knit over all except the last three or four needles. For

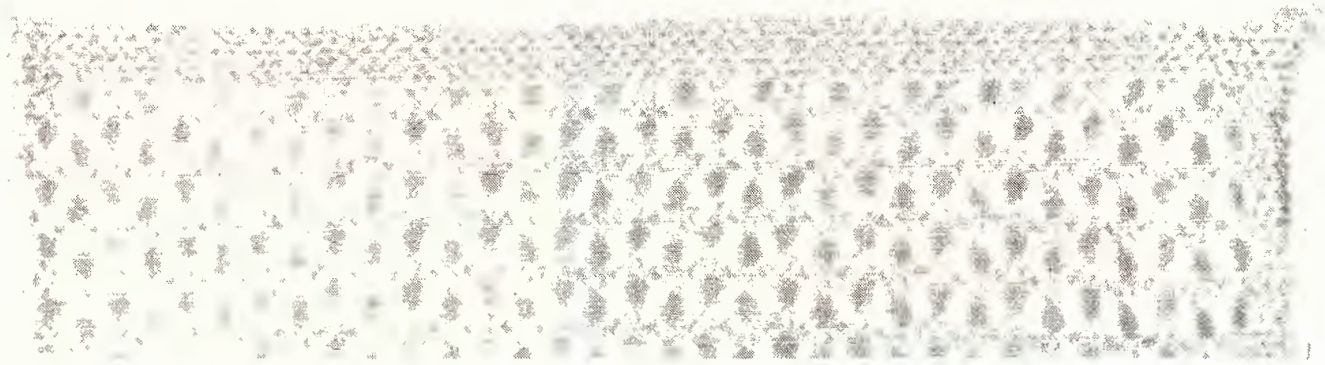

Fig 1.

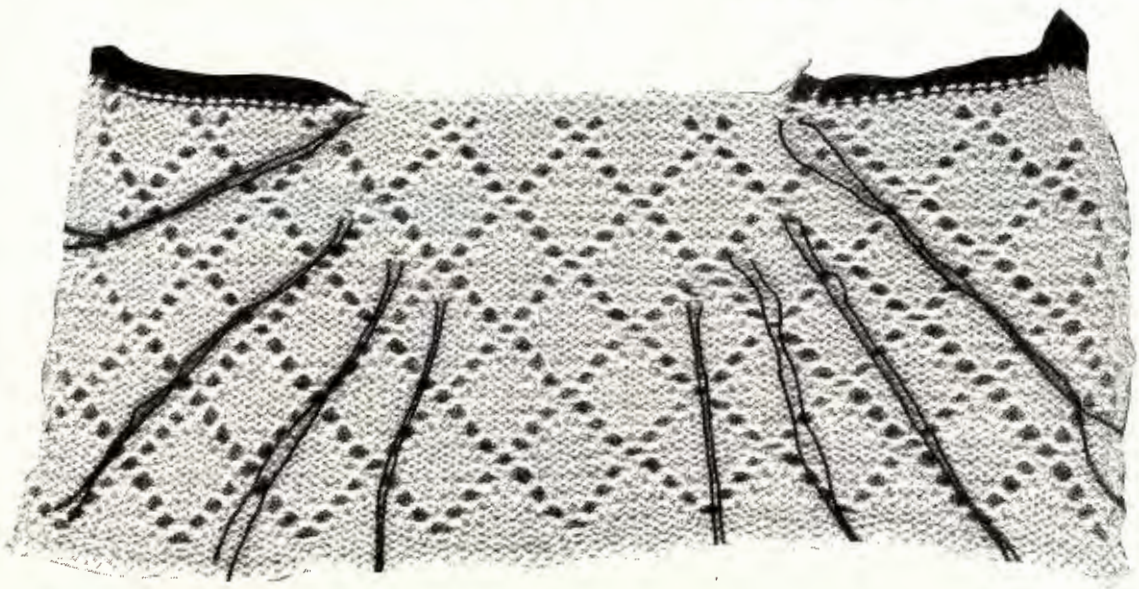

Fig 2.

example, if the garment is knitted on sixty stitches each side of 0 and three stitches are to be knitted plain on each side, programme the motif from Y57 to G57. When knitting garments which are shaped, programme to exclude the end needles on the straight sections, but push the needles back manually on the shaped sections.

When planning a lace garment, avoid using designs which involve complicated shaping because this can not only cause problems while knitting but can also make it very difficult to assemble the garment neatly. Garments with set in sleeves are easier to knit than raglans, while drop sleeves are very easy to knit and are ideal for the beginner.

When shaping, check that the weighting is still adequate and even. When casting off blocks of stitches, try using a separate strand of the main yarn to cast off stitches at the end of the needle bed opposite the carriage. Decrease single stitches after using the lace carriage so that they can be left in E position and will be knitted back by the main carriage.

The biggest problem when knitting a lace garment is the neck shaping. When one side of the knitting is held on the needles, weighting the other side becomes very difficult. There are several alternatives which can be used to overcome this problem, including using a slash neck, knitting the top of the body front in stocking stitch, using cut and sew or transferring some of the stitches by hand to avoid dropped stitches.

The easiest way to knit a round or V neck in a lace garment is to use cut and sew. While knitting the front of the garment, use waste yarn markers to show the position of the neck, as shown in Fig. 2. Using a zig-zag stitch on a sewing machine, the chain stitch of a Hague or other linker or backstitching by hand, follow the outline of the neck with a line of stay stitching. Cut out the neck shape, keeping as close to the stitching as possible while cutting the shape. Add a neckband which is knitted separately and backstitched to the neck edge to cover the cut edge. I know that many knitters are terrified of trying this, but it really is very easy and the stitches do not unravel. Why not try on the tension square first and prove to yourself that it does work, because it saves such a lot of time!

For the faint hearted, the alternative to cut and sew is to hold the neck but use some manual transfer. When using the lace carriage, needles cannot be pushed forward to holding position because the front section of the needle would be sheared off by the lace carriage. When needles are to be held, the nylon cord is used to take them back to non-working position. Starting at the end of the knitting opposite the carriage, knit each stitch on to the cord, pulling the needle right back to non-working position and forming a long loop with the cord. Note the pattern row number, so that it can be re-set for the second half of the neck.

The first few rows after splitting the neck are the most difficult to knit. It is possible to avoid dropped stitches by manually transferring the needles for these rows. Move the lace carriage once across the needles, selecting the first group to be transferred. Using a single prong tool, transfer the stitch in the correct direction – remember that stitches are transferred in the same direction that the lace carriage moves, so if the lace carriage is about to move to the left, the stitches should be transferred to the left. Move the lace carriage to select the next group of needles, then transfer manually. Use the main carriage to knit the plain rows as required. After splitting for the neck, knit about twelve rows using this method then weight carefully. It should then be possible in the usual way, although the weights must be moved up very frequently.

The shoulders of lace garments can be shaped using holding position for a neat finish. Use the nylon cord to take the first group of needles to non-working position as described for the neck, ensuring that the long end of the cord is at the neck edge. Knit one row and put the end needle, nearest the carriage, to non-working position on the cord (automatic wrap). Knit one row before putting the next block of needles to non-working position with the cord.

After completing the shoulders, knit one plain row to knit off the holding loops before removing from the machine with waste yarn.

I hope that you will now be encouraged not only to knit lace but also to use it for garments. In the last article in this series, next month I will be describing the newest addition to the Brother lace family – thread lace.

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BACK

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 51 [55, 59, 63] Ns at left and right of centre 0 to WP. 102 [110, 118, 126] Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MC, cast on and K 5 tubular rows. * Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st *.
MACHINES WITHOUT RIBBER
Push 51 [55, 58, 63] Ns at left and 50 [55, 58, 62] Ns at right of centre 0 to WP. 101 [110, 116, 125] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–4 and MC, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed *.
1ST AND 4TH SIZES
Inc 1 st at right edge.
3RD SIZE
Inc 1 st at each end.
ALL SIZES
102 [110, 118, 126] sts.
ALL MACHINES
Set RC at 000. Using MT, K 1 row. Insert punchcard and lock on first row. Set carriage for patt. K 1 row. Release card and cont in Fair Isle patt. K 48 [60, 70, 80] rows. RC shows 50 [62, 72, 82] and work measures 20 [23, 26, 29] cm, 8 [9, 10¼, 11½] in. Place marker at each end. K 18 [28, 26, 38] rows. RC shows 68 [90, 98, 120]. Cont in st st and MC **. Using MT–1, K 40 [32, 38, 28] rows. RC shows 108 [122, 136, 148] and work measures 35 [39, 43, 47] cm, 13¾ [15½, 17, 18½] in.
SHAPE SHOULDERS
Cast off 17 [18, 20, 21] sts at beg of next 2 rows and 16 [18, 19, 21] sts at beg of foll 2 rows. Cast off rem 36 [38, 40, 42] sts.

FRONT

Work as for back to **. Using MT–1, K 24 [14, 20, 8] rows. 16 [18, 18, 20] rows less have been worked to shoulder than on back.
SHAPE NECK
Using a length of MC, cast off centre 16 [18, 20, 22] sts. Push 43 [46, 49, 52] Ns at left to HP and cont on rem sts for first side. K 1 row. Dec 1 st at neck edge on every row until 33 [36, 39, 42] sts rem. K 5 [7, 7, 9] rows.
SHAPE SHOULDER
Cast off 17 [18, 20, 21] sts at beg of next row, K 1 row. Cast off rem 16 [18, 19, 21] sts. With carriage at left, push rem Ns from HP to UWP. Finish to correspond with first side, reversing shapings.

SLEEVES

Push 33 [36, 39, 42] Ns at left and right of centre 0 to WP. 66 [72, 78, 84] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MC, K 1 row. Insert punchcard and lock on first row. Set carriage for patt. K 1 row. Release card and cont in Fair Isle patt. K 3 [4, 5, 6] rows. Shape sides by inc 1 st at each end of next and every foll 7th [8th, 9th, 10th] row until there are 84 [94, 100, 102] sts. K 6 [3, 0, 9] rows. RC shows 68 [90, 98, 98]. Cont in st st and MC. Using MT–1, cont to inc on every 7th [8th, 9th, 10th] row from previous inc until there are 90 [96, 102, 108] sts. K 5 [3, 1, 1] rows. RC shows 88 [98, 108, 120] and work measures 25 [28, 31, 34] cm, 9¾ [11, 12¼, 13½] in. Cast off.

CUFFS

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MC, cast on 53 [56, 59, 62] sts in 1×1 rib. K 5 tubular rows. Work as for back from * to *.
MACHINES WITHOUT RIBBER
Push 53 [56, 59, 62] Ns to WP. Work as for back from * to *.
ALL MACHINES
With P side facing, replace 60 [72, 78, 84] sts from lower edge of sleeve on to Ns gathering evenly. Using MT, K 1 row. Cast off.

NECKBAND

Join right shoulder seam.
MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MC, cast on 95 [101, 107, 113] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 20 rows. Transfer sts for st st. Using MT, K 1 row.
MACHINES WITHOUT RIBBER
Push 95 [101, 107, 113] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–3 and MC, K 5 rows. Using MT–4, K 11 rows. Using MT–3,. K 5 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed. Using MT, K 1 row.
ALL MACHINES
With P side facing, pick up sts around neck edge and place on to Ns. K 1 row. Cast off.

3 CHILD'S BUTTERFLY SWEATER

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard machines with or without a ribber.

MATERIALS

King Cole Anti-Tickle 4-ply
1 [1, 1, 1] × 500g cone in White (MC)
A small amount in Grape (A) and Dusky Pink (B)
4 buttons
Crochet hook
GARMENT WEIGHT
Finished garment in second size weighs 230g

The fibre content of this yarn is 100% Pure New Wool. For further details about local and mail order stockists, please write to King Cole Ltd., Merrie Mills, Old Souls Way, Bingley, West Yorkshire BD16 2AX.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

To fit chest 61 [66, 71, 76] cm, 24 [26, 28, 30] in.
Actual size 67 [72, 77, 82] cm, 26½ [28¼, 30¼, 32¼] in.
Length to shoulder 35 [39, 43, 47] cm, 13¾ [15½, 17, 18½] in.
Sleeve seam 30 [33, 36, 39] cm, 11¾ [13, 14¼, 15½] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

30 stitches and 34 rows to 10 cm, 4 in measured over Fair Isle pattern (tension dial setting approximately 8).
30 stitches and 40 rows to 10 cm, 4 in measured over stocking stitch on MT–1 (tension dial setting approximately 7).

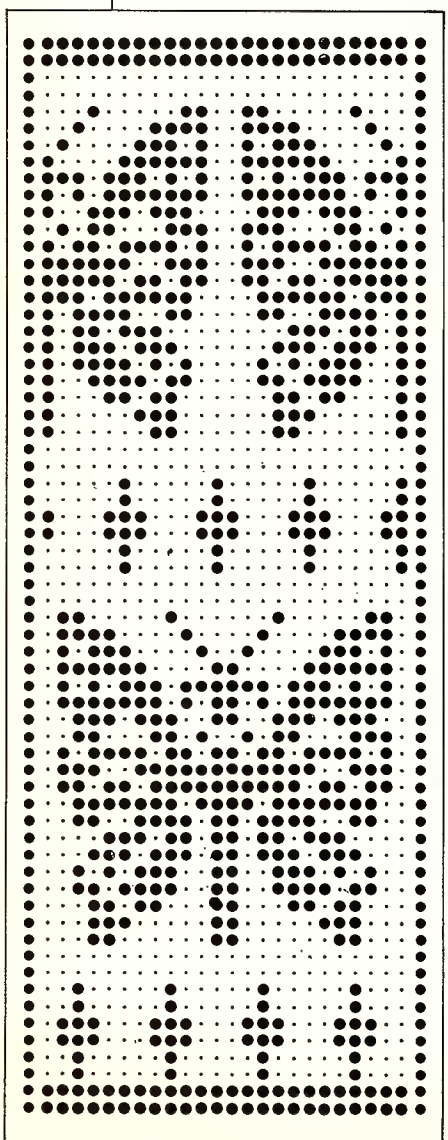
For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Punch card, as shown, before starting to knit. Knit two colour Fair Isle rows with first colour given in back feeder 1/A to knit background and second colour given in front feeder 2/B to knit contrast pattern.
We used a card adapted from a punchcard in Brother Punchcard Pattern Vol. 2 and reproduced courtesy of Jones + Brother. For further information about Brother cards and machines, please write to Jones + Brother, Shepley Street, Guide Bridge, Audenshaw, Manchester M34 5JD.
FAIR ISLE PATTERN
K 6 rows MC/B, 2 rows MC only (st st), 20 rows MC/A, 2 rows MC only (st st), 6 rows MC/B, 2 rows MC only (st st), 20 rows MC/A and 2 rows MC only (st st). These 60 rows form pattern.



Skirt, NAF NAF.

3
NAFM
73

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

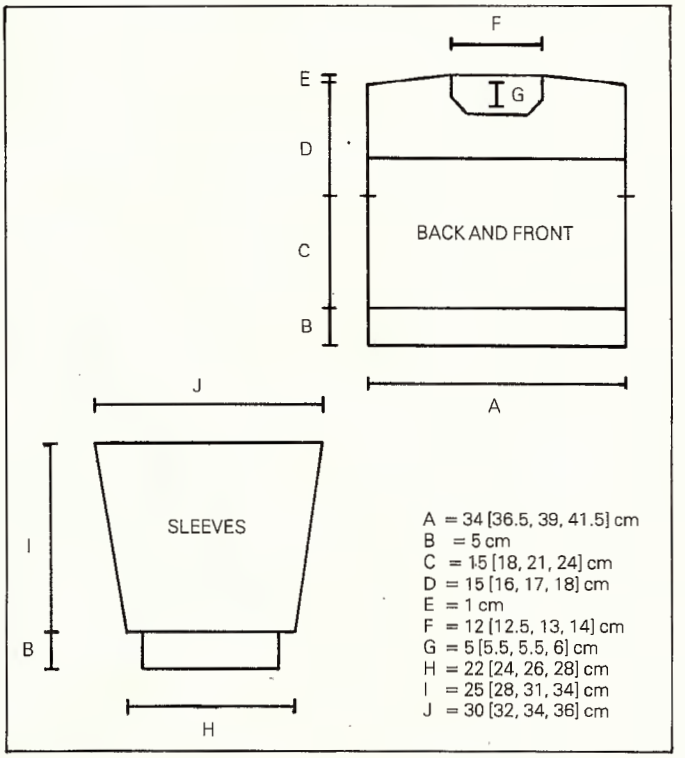
MAKING UP

MACHINES WITH RIBBER

Fold neckband in half to inside and catch down.

ALL MACHINES

Using crochet hook, work 2 rows of double crochet along left back shoulder, then work 2 rows double crochet on left front shoulder, making 4 buttonloops in second row. Sew on buttons. Set in sleeves between markers. Join side and sleeve seams.



A = 34 [36.5, 39, 41.5] cm
B = 5 cm
C = 15 [18, 21, 24] cm
D = 15 [16, 17, 18] cm
E = 1 cm
F = 12 [12.5, 13, 14] cm
G = 5 [5.5, 5.5, 6] cm
H = 22 [24, 26, 28] cm
I = 25 [28, 31, 34] cm
J = 30 [32, 34, 36] cm

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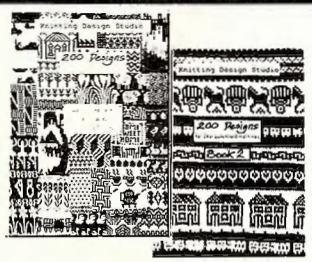

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SPOTLIGHT

LET'S TAKE A LOOK AT BROTHER ELECTRONIC MACHINES

These top of the range models enable the machine knitter to fully explore the creative potential of the craft.

THE BROTHER KH940

Uncomplicated and economically priced, the KH940 Electroknit is ideal for the first time buyer. As well as having 555 'built-in' patterns, the advanced nature of the KH940 allows the user to programme their own patterns and use a variety of variation buttons to give design options.

THE BROTHER KH950i

At the top end of the market, the KH950i Electroknit is a highly sophisticated machine, holding 555 patterns, any of which can be called up at the touch of a button. It has all the features of the KH940, plus the ability to take any part of a design with many more options easily programmable.

All standard stitches are possible including tuck, slip, Fair Isle, weaving and plating. A new style facility for intarsia is built into the main carriage – ideal for picture or geometric knits and with the combination of an all inclusive Brother lace carriage many extra stitches can be created.

THE PPD110

The PPD110 enables the user to design patterns on their home TV screen. The PPD110 is extremely simple to use – the user needs only to tell the machine how many stitches wide the pattern will be and how many rows long and then the machine will display a pattern grid of that size on which to design the pattern. Once ready to knit the design, you simply plug the PPD110 into your KH950i or KH940 and transfer the pattern over ready to knit.

PRINTERS

Printers compatible for use with the PPD110 are the Brother 1109, 1209, 1709, 1724, 1409, 4018 and 2518. They are dot matrix printers capable of producing excellent graphics.

DISC DRIVE

Both the 940 and 950i can benefit from the Brother Disc Drive (FB100) which is capable of storing large quantities of patterns and is extremely simple to operate. It can also link directly to the PPD110.

BROTHER PUNCHCARD MACHINES

Punchcard machines perform a variety of stitch patterns automatically with the aid of a plastic sheet which has a series of holes punched into it to form a pattern. Look out for the following punchcard models:

THE BROTHER KH891

The KH891 is a standard gauge machine (4.5mm) which will knit two ply, three ply, four ply and fine double knit. This machine comes with a built in Knitleader which offers a quick and reliable alternative to writing pattern instructions. By tracing the full size pattern shape on to a design sheet, the Knitleader will tell you how many stitches to cast on and where to increase and decrease. A fully automatic machine, the KH891 uses a punchcard system and can produce Fair Isle, tuck stitch, slip stitch, weaving and lace.

THE BROTHER KH836

The Brother KH836 is a supremely economical machine and has all the basic stitches built in. As the knitter becomes more experienced, the purchase of a whole range of Brother optional attachments makes this machine one of the most advanced punchcards available. Fully automatic, the KH836 makes easy work of a variety of stitches. The optional attachment of a lace carriage enables the knitter to create beautiful lace designs.

THE BROTHER KH260

The Brother KH260 is a 9mm gauge machine which knits thicker double knits through to chunky yarn. The KH260 is the only 24 stitch chunky punchcard machine on the market. It utilises standard pattern cards (15 pre-punched cards come with the machine). These help the knitter to create classic designs in a wide choice of yarn.

A KNITTING FIRST

Proving to be a great success is the Brother Convertible (KX395). The first of it's kind, it enables the user to easily switch from chunky to fine yarn all on the same machine.

Ideally aimed at the beginner or hand knitter wishing to convert to the art of machine knitting it has a chart of hand knitting needle numbers for quick reference. It represents excellent value for money at around £170 – an attractive proposition for the practical woman or teenager who can create delightful knitted garments in just a couple of hours at a fraction of the cost.

Slipping on either set of needle spacers, four ply wool through to ranges of double knit on the standard set and aran, mohair and chunky wool may be knitted on the larger set.

It is capable of Fair Isle, slip, tuck, plating and intarsia (picture knitting) and through the use of tools provided, lace, cable, plain and purl stitches are all easily achieved.

Compact, lightweight and with the ability to knit a fine suit to a chunky jacket the Brother Convertible is a marvellous new concept in machine knitting.

WHY NOT TRY AN OVERLOCKER?

The Brother 760DE is a compact domestic overlocker which offers all the facilities and reliability of an industrial machine at a fraction of the cost and with many additional features to enable home knitters to produce high quality cut and sew garments.

A most important feature of the 760DE is that it is extremely easy to thread up and to maintain, something that will be appreciated by anyone who has ever had to rethread an industrial overlocker. The simplicity of this machine ends there as the range of facilities and accessories is extremely comprehensive and provides everything that anyone could possibly need to finish cut and sew knitwear.

The Brother 760DE is a versatile piece of equipment for anyone who sews or knits as it can be used on both woven fabrics and knitted fabric to equal effect.

The special feature of the 760DE which enables perfect seams to be achieved on knitwear is called the differential feed mechanism. There are two feeders on the 760DE and the front feeder can be adjusted to feed more or less fabric than the rear feeder. On a stretch fabric such as jersey or knitting, by adjusting the front feeder to the maximum position of 2 the overlocked edge will be perfectly straight. On an ordinary overlocker which does not have such a feature for stretch fabrics the overlocked edge would be wavy and unacceptable to use for making up garments.

The 760DE can operate as a four thread or three thread overlocker depending on which is most suitable for a particular fabric. As a general rule use it with four threads on heavy fabrics and on knitting and with three threads for lighter weight wove/fabric. In addition the width of the overlocker stitch can be set at 5, 6 or 7mm using it with three or four threads or to 2.8, 3.8 or 4.8mm using it with three threads only.

Three different feet are also supplied with the 760DE which produce additional stitches.

A large accessory bag contains oil, a brush, a pair of long tweezers, various screwdrivers, extra needles, nylon net for use with loosely wound thread and thread spool caps for use with small reels of thread.

A very thorough handbook covering all aspects of the machine will answer any questions one might have and a colour leaflet shows clear enlarged diagrams and photographs for quick reference on adjusting tensions and rethreading.

For home knitters, sewers or designers who want to produce garments with a very professional finish the Brother 760DE is the perfect answer with its combination of invention, reliability and quality and will become a much used addition to anyone's workroom.

Finally, Brother has introduced the Stitch World Extra Disc. This disc comes complete with a pattern book showing all 63 designs in colour and again in the back section in graph form and consists of Fair Isle, single motifs, thread lace, lace, fine lace, slip or skip stitch, tuck stitch and garter carriage designs.

You can feed the disc, using the FB100 disc drive directly into the KH940, KH950i or into a PPD110 unit.

This is available at your local Brother stockists now.

4

4 WOMAN'S SLEEVELESS VEST

PATTERN RATING

* Easy to knit

MACHINES

This pattern is suitable for standard gauge machines.

MATERIALS

Atkinson's Secrets
1 [1, 1, 1] × 500g cone in Papillon (MY)
GARMENT WEIGHT
Finished garment in first size weighs 180g

Secrets is 56% Viscose, 36% Acrylic, 8% Polyester. If you have difficult obtaining this yarn and would like a list of your local stockists, please write to Atkinson Yarn Designer Collection, Terry Mills, Ossett, West Yorkshire WF5 9SA.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

To fit bust 87 [92, 97, 102] cm, 34 [36, 38, 40] in.
Actual size 91 [96, 101, 107] cm, 35¾ [37¾, 39¾, 42] in.
Length to shoulder (adjustable) 46 [46, 48.5, 48.5] cm, 18 [18, 19, 19] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

30 stitches and 40 rows to 10 cm, 4 in measured over stocking stitch (tension dial setting approximately 8).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4

KNITTING NOTES

We used knit side of knitting as right side of garment.

BACK AND FRONT ALIKE

Push 138 [146, 154, 162] Ns to WP. * Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT−2 and MY, K 10 rows. Using MT+2, K 1 row. Using MT−2, K 10 rows. Make a hem by placing loops of first row worked in MY on to corresponding Ns. Unravel WY when work is completed. Using MT−1, K 1 row *. Set RC at 000. Using MT, K 94 [94, 100, 100] rows. Work measures 26 [26, 27.5, 27.5] cm, 10¼ [10¼, 11, 11] in. Adjust length at this stage, if required.

SHAPE ARMHOLES

Cast off 8 sts at beg of next 2 rows. Dec 1 st at each end of every row until 110 [118, 126, 134] sts rem, then on every foll alt row until 96 [100, 104, 108] sts rem. K 28 [24, 24, 20] rows.

SHAPE NECK

Using a length of MY, cast off centre 12 [14, 16, 18] sts. Push 42 [43, 44, 45] Ns at left to HP and cont on rem sts for first side. K 1 row. Cast off 3 sts at beg of next and foll alt row, K 1 row. Dec 1 st at neck edge on every row until 28 [29, 30, 31] sts rem, then on every foll alt row until 22 [23, 24, 25] sts rem. K 5 rows.

SHAPE SHOULDER

Cast off 5 [6, 6, 6] sts at beg of next and foll 2 alt rows, K 1 row. Cast off rem 7 [5, 6, 7] sts. With carriage at left, push rem Ns from HP to UWP. Finish to correspond with first side, reversing shapings.

NECKBAND

Join right shoulder seam. Push 176 [180, 184, 188] Ns to WP. Work as for back and front from * to *. With P side facing, pick up 88 [90, 92, 94] sts around back neck edge and 88 [90, 92, 94] sts around front neck edge and place on to Ns. Using MT+2, K 2 rows. Cast off.

ARMHOLE BANDS

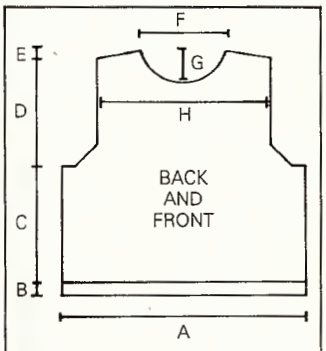
Join left shoulder and neckband seam. Push 124 [124, 130, 130] Ns to WP. Work as for back and front from * to *. With P side facing, pick up 124 [124, 130, 130] sts around armhole edge and place on to Ns. Using MT+2, K 2 rows. Cast off.

PRESSING

With wrong side facing, pin out pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join side seams.



A = 46 [48.5, 51, 54] cm
B = 2.5 cm
C = 23.5 [23.5, 25, 25] cm
D = 20 [20, 21, 21] cm
E = 1.5 cm
F = 17 [18, 18.5, 19] cm
G = 9 cm
H = 32 [33, 34.5, 36] cm

The Woolleys

by Doug Baker

DUOMATIC UPDATE

INTARSIA ON THE DUOMATICS AND OTHERS

For some while now I have been thinking that it was high time that owners of the various Duomatics had some help with 'Picture Knitting' or intarsia.

Before I started this article, I looked in my dictionary to confirm in my mind the exact definition of the term and would you believe it, it was completely missing from my larger one and only just mentioned as being of Italian origin with no meaning given in the smaller, so we are back to the above names again.

Dorothy Gill

For the benefit of knitters who have never attempted this kind of knitting let me say that it is a method of doing work in two or more colours in the same row, usually in stocking stitch, but occasionally in double bed work (Model Book 32, page 12) in which the non-knitting threads are not taken across the back of the work in long loops as in most single-bed Fair Isle, but hang there, waiting to be used again in the next row. Patterns can be as simple as you like or as complicated as you are prepared to do, though those with a strong 'poster-like' impact are better than those with intricate small designs. They can be so extensive as to cover the entire front of a sweater or as small as a badge or a button.

In the past year Machine Knitting Monthly has been featuring some exciting and imaginative designs by Thelma Dawson and I will come to those later. For a start we are going to learn the techniques of handling the yarns and getting to know the tools we shall need. There have been quite a lot of patterns in the Model Books which make use of the pushers and the colour changer for this work but what I am about to describe goes back to the days when we all had single-bed machines and had to lay the wool into the open latchets of the needles, by hand, before knitting the row.

So I am primarily addressing myself to people who have the old M 201, the automatic, or who have bought the special intarsia carriage for the double-bed machines from Tricot Products of Somerset. The instructions are also useful to owners of other machines like the Passap 12, 22 and other makes of machines just so long as they have the facility to hand feed the yarn. Intarsia using the pushers or the console uses different techniques.

So, start off by casting on for a 1 × 1 rib over 60 needles at a stitch size to suit your yarn and knitting an inch or so of rib, then transferring to the back bed and, at an increased stitch size and using the black strippers, knit about ten rows in stocking stitch. Or make a mock rib hem if you have a single-bed machine.

Remove the edge springs from your machine, the front and back locks (and in a larger piece, the colour changer too), break off the yarn and unthread it from the mast. Drop the front bed.

Place the intarsia row counter trip cam just to the left of the needles in the edge-spring channel of the back bed (mine slips a little but a small bead of Blu-Tack at each end puts that right) and fit the intarsia carriage on the left side of the bed. When you slide this on in place of the normal carriage make sure that the upper channel engages correctly, using the two carriage grips (A, page one in the booklet) to make this easy. If you experience a slight bump a couple of inches from the side, lift the leading edge a trifle to get it over the junction between the needlebed end plates and the needlebed sections. Move it across to the right.

Now you see that all the needles have come forward into what can be called the 'yarn receiving position', without dropping the stitches and in this position it is essential that the needles are always open, otherwise you will drop stitches, so watch the latches. (M 201 owners knit as usual; for automatics, every right to left row is knitted with the lever at C and every left to right row, with the lever at B.)

Place your main yarn on the floor below your machine and lead the broken off end of the yarn up between the beds. For the moment lay it across any needle towards the right and clip the two ends together again with an ordinary clothes peg, or if you have one, place them in the yarn clip of your bed. Then place a cone of contrasting yarn to the left of the first one and lead the end up between the beds too. (There is actually a special yarn brake to fit on the front bed to take the yarns over the surface of the front bed, but I have done it for so many years without that this is how I now prefer it. Also I find I get better results when the yarn travels vertically to the needles than when it passes at an angle over the front bed.) Clip that end too.

Now fit the tensioning harness as on pages two and three of the booklet, poking the hooks into the knitting to assist in the downwards movement of the fabric. The marks will disappear when the work is blocked. (Or thread a long hand knitting needle in and out of the knitting and hang the hooks on that. Or use a light comb without weights instead.) Set the stitch size dial on the carriage to the same number as that used for the stocking stitch earlier. Set the row counter to 000 by rolling the wheels with your finger underneath the carriage.

We will do three simple exercises on this piece for a start. (For clarity in the photograph, I worked more rows than in the following text.) Put a loop of another colour over the running thread which lies between needle 1 left and 1 right to act as a marker. With the point of the orange tool, lift the main yarn and lay it into the hooks of all the needles from the lock side to the centre, allowing it to go down between needle 1 right and 1 left again. (Call this the 'zero gap'.) Then lift your contrast yarn through the zero gap and lay it across the rest of the needles in the same way towards the left. The previous stitches lie behind the open latchets and the yarn lies on the hook.

At this point it is a good idea to

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A Mary Dowse Original

GIVE YOURSELF A TREAT

This fabulous party dress designed by Mary Dowse that is interesting to knit as well as a certain winner to wear!

It takes Mary's wonderful eye for colour to mix the contrasts of the skirt and underline them with a froth of orange net... and if you are thinking "It's too young for me", think again, as there is a version for larger sizes.

The skirt is in coloured drive lace or release stitch. It is knitted in three colour double jacquard with all the stitches on the main bed taken off or released every few rows to give the laddered lacy effect. The original was knitted in 2/30's Acrylic yarn and lurex for the skirt and Hobby for the tiny bodice. A pattern is available for this style to size 16 and in a softer sleeved version for larger sizes. All pattern details are for both Japanese and Pfaff machines. Price £2.50 post free.

To: Mary Dowse, 50 St Anne's Crescent, Lewes, East Sussex BN7 1SD.

Please send me _____ pattern(s) at £2.50 each.

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remove the two centre pages from your instruction booklet and prop them up in such a way behind your machine that you can see diagrams C, D and E easily. They are written in French so it is unlikely that you will need them again for anything else. Hold the ends in the clothes peg in your left hand to control them in this, the first row only and at the same time lightly hold the yarn coming from the cones in the same hand, holding your hand as near to the bed as you can. Take the intarsia carriage across to the left, keeping your wrist low and pressing slightly on the handle. You will see that all the needles move backwards, closing over the yarn until they make a stitch and then come forward into the Y.R.P. again. The row counter reads 001. Do not hold the yarn too tightly as the end of the row is reached or the last couple of stitches may not be knitted.

Now from the left lay the yarn nearest to the carriage over the needles from the outside again and down through the zero gap. Pick up the other yarn and making sure that you bring it *in front of* and round the previous yarn, thus trapping it, lay that towards the right again.(Diagram E pages five and 17.)

Take the intarsia carriage across to the right, controlling both yarns as you let them slip between your fingers. The row counter reads 002.

Repeat these two rows about five times, making sure that each time the yarn nearest to the carriage is trapped by the second colour. Row counter reads 012.

You will have a nice vertical join with a neat 'fastening' at the junction on the purl side of the work. Knit four rows with the main colour only.

Now repeat this exercise for another twelve rows, but this time make sure that you *do not* trap the first yarn with the second as you bring it up through the zero gap. This time you have knitted two entirely separate pieces, each in a different colour and this is wrong. But hold on, suppose you wanted just such a vertical gap say for a vertical buttonhole, using two balls of the same colour, or for a belt slot, a gap for a zip fastener or, shaped, for a neck opening. Then this is precisely what you have to do, that is, do not wrap the yarns round each other.

Knit four rows with main only to seal the gap.

Thirdly, do another twenty rows but this time use the zero gap in the first row, the gap between needle 2 left and 1 left in the second row, between 3 left and 2 left in the third row and so on and as before start with the yarn nearest to the carriage and trap it with the second yarn before knitting. Do it ten times moving the gap leftwards, then ten times moving it to the right again. You will see that you have a broad arrow of the first colour pointing towards the left.

Sometimes, when doing patterns where the junction between the colours is in a different place in every row you may find that you do not even need to trap.

If you have never used your pushers just as pointers, now is the time to try. They do not take part in the knitting but are exceedingly helpful in keeping you to the correct gap.

Break off the contrast yarn, knit four rows with the main yarn (still with the intarsia lock) and cast off all across. Block and press. If you have held the working yarns at just the right tension under the needlebed you will have a most satisfactory junction between one colour and the next.

All these are on sample A labelled A1, A2, A3 but do remember that on the machine you were looking at the reverse side and the photograph shows the right side.

The next practice piece involves you in using more than one extra colour. Cast on as before and when the time comes to introduce the other yarns take the main yarn from the carriage side (right) across twenty needles only and lead it down between needle 10 right and 11 right. Bring up contrast number one, lay it across the next twenty needles and down between needle 10 left and 11 left, then in a similar way, bring up the second contrast trapping the previous yarn as already practiced and lay it across the rest of the needles.

Knit the row, from the right, a little more slowly, letting the yarns feed freely as each is reached in turn.

Now you will find that the yarns seem to be tangled under the needlebed on their way from the cones to the last stitch knitted. This does not matter, for as you prepare for the next row they untangle themselves again. Knit the row and repeat until you are comfortable. Knit four rows with the main yarn only.

Next attempt a simple shape. Lay the main yarn from the right over needles 30 right to 2 right, the first contrast over needles one right and one left and the second contrast over 2 left to 30 left. Knit the row and repeat from the left using exactly the same gaps.

Row three, lay main over 30 right to 3 right, first contrast over 2 right and 2 left, second contrast over 3 left to 30 left. Knit the row and repeat from the left.

Row five, main – 30 right to 4 right. Cont. 1 – 3 right to 3 left, Cont. 2 – 4 left to 30 left. Row six, repeat from the left.

Row seven and so on, continue in this way, making the two outside sections one stitch narrower each time and the centre section two stitches wider in every right to left row. Then when you are comfortable, carry on but vary the rate at which you widen the centre section for a change. Knit a few rows in one colour only and cast off.

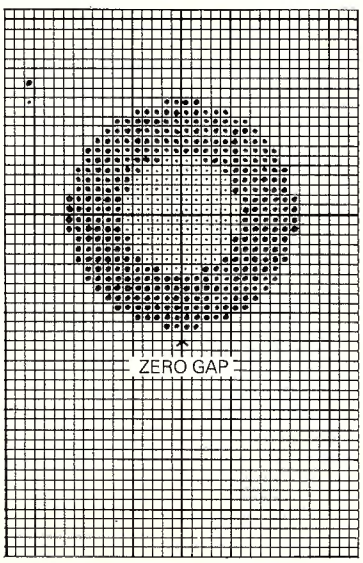
This is sample B, labelled B1 and B2.

Now this is all very well but it can be made very much more workable if you have your design drawn out for you to see exactly where you have to change colour and how many stitches are needed in each row and this is where the charting devices, for example, your Forma, come into their own.

For a start, draw a very simple pattern on squared paper such as an A4 pad of design paper from the stationers, your Forma paper or plain paper clipped behind the Dawson Grid and colour it in. I suggest a circle in medium colour within a circle in dark colour on a background of a light colour (main) as in figure 1.

Cast on as before and when you are ready to start the colour section operate your charter or the grid to bring the lower line of coloured squares into view at the bottom. If working with squared paper draw a line down the centre of the pattern to show the position of the zero gap. If you like, mark every fifth square in a similar way, insert your stitch

Fig.1



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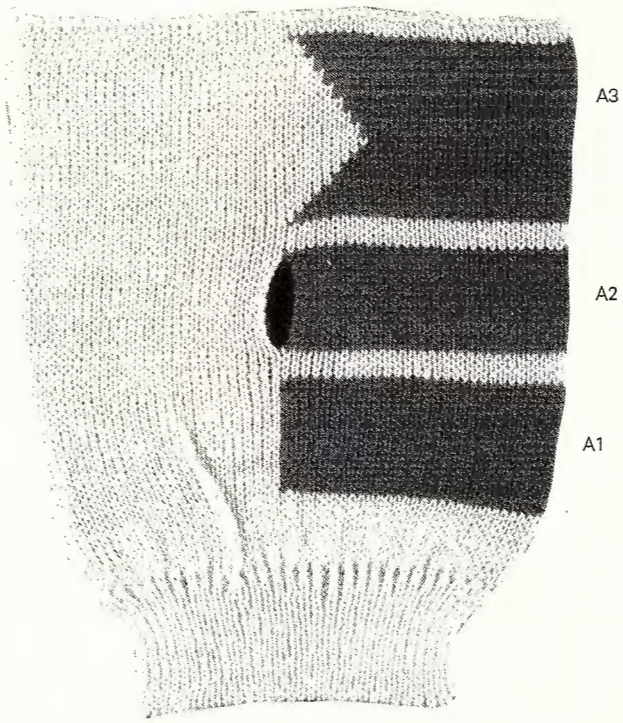

scale (which should be one with the zero at the centre) or cover all the lower part of the design with a strip of card. Work the lower row of squares in the way you have already practiced. Move the card up one square or manually operate your charter so that the next row of squares (i.e. stitches) lies along the rule you are using and work the next row using the ruler or the squares on the chart to show you which needles to use for each colour. You should now find no difficulty in working the sample. (C, five balls of yarn now.)

Now, here is a word of encouragement for owners of the Passap Monomatic 20, a single-bed machine (back bed) with pushers. Take everything off the needlebed and turn it over. At each end there is a steel bracket held to the underside by two cheese-headed screws.

Undo these screws and remove the hinged presser rail (page nine in the manual) completely, putting the screws back in the holes they came from so that they won't get lost. Turn the bed on its feet again, fasten it to the table and operate it as above. It is even easier than on the double-bed machines as there is now nothing to get in the way. However, do make sure you have a little downwards pull on the work.

The other Passap single-bed machine with pushers is in effect only the front bed but as I haven't one in front of me I am unable to tell you what to take off, if anything.

In the next instalment I will show you how to knit a garment placing the motif exactly where you want it.

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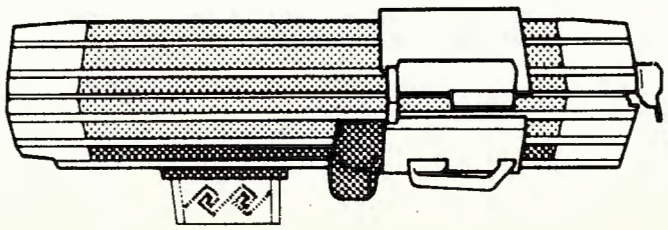


VISA

12123

5 LACE DRESS

PATTERN RATING

** Fairly easy for knitters with some experience

MACHINES

This pattern is suitable for standard gauge punchcard machines with lace carriage and with or without a ribber.

MATERIALS

C.Y.S. Algarve 4-ply Perlé.
2 [2, 2, 2, 2, 2, 3, 3] × 500g cones in Mint (MY).
Small amount of White for collar
GARMENT WEIGHT
Finished garment in second size weighs 615g.

The fibre content of this yarn is 100% Acrylic. For further details about local or mail order stockists, please write to C.Y.S., 4 & 6, St Mary's Gate, Rochdale, Lancs OL16 1DZ.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 94 [99, 104, 109, 114, 119, 124, 129] cm, 37 [39, 41, 43, 45, 46¾, 48¾, 50¾] in.
Knitted length to shoulder 114 [114, 115, 115, 116, 116, 117, 117] cm, 45 [45, 45¼, 45¼, 45¾, 45¾, 46, 46] in.
Sleeve seam 17.5 [17.5, 18.5, 18.5, 19.5, 19.5, 20.5, 20.5] cm, 7 [7, 7¼, 7¼, 7¾, 7¾, 8, 8] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

28 stitches and 40 rows to 10 cm, 4 in measured over lace pattern (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

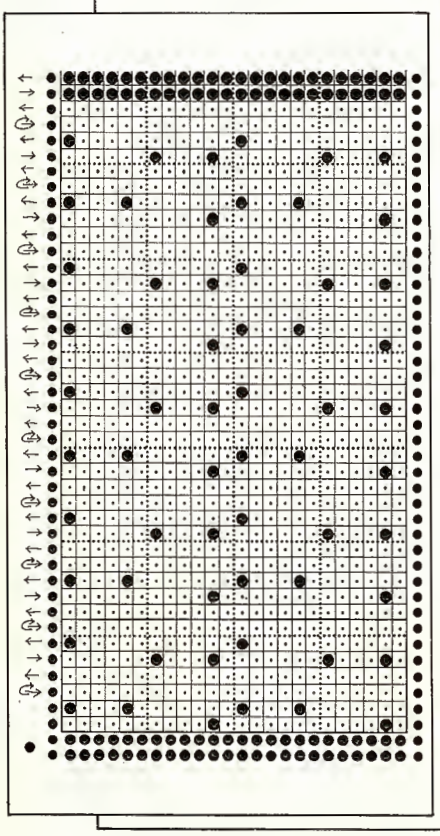
See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Punch card, as shown, before starting to knit. This card is suitable for Brother lace carriages. Toyota owners should reverse the card before knitting. For other models, we suggest that you substitute a lace pattern specially recommended for your machine. We used card 40 from Brother Punchcard Pattern II book and reproduce it courtesy of Jones+Brother. For further information about their cards and machines, please write to Jones+Brother, Shepley Street, Audenshaw, Manchester M34 5JD.

BACK

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 67 [70, 74, 77, 81, 84, 88, 91] Ns at left and right of centre 0 to WP. 134 [140, 148, 154, 162, 168, 176, 182] Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. * Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 12 rows. Transfer sts for st st *.
MACHINES WITHOUT RIBBER
Push 67 [70, 73, 76, 81, 84, 88, 91] Ns at left and 67 [70, 73, 76, 80, 83, 88, 91] Ns at right of centre 0 to WP. 134 [140, 146, 152, 161, 167, 176, 182] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 23 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *.



3RD AND 4TH SIZES
Inc 1 st at each end.
5TH AND 6TH SIZES
Inc 1 st at right edge.
ALL SIZES
134 [140, 148, 154, 162, 168, 176, 182] sts.
ALL MACHINES
Set RC at 000. Using MT, K 1 row. Insert punchcard and lock on first row. Set carriage for patt. K 1 row. Release card and cont in lace patt. K 356 rows. RC shows 358 and work measures 92 cm, 36¼ in. Place a marker at each end.
SHAPE ARMHOLES
Dec 1 st at each end of next 2 rows. ** K 1 row. Dec 1 st at each end of next 2 rows; rep from ** 7 more times. 98 [104, 112, 118, 126, 132, 140, 146] sts ***. K 62 [62, 66, 66, 70, 70, 74, 74] rows. RC shows 446 [446, 450, 450, 454, 454, 458, 458] and work measures 114 [114, 115, 115, 116, 116, 117, 117] cm, 45 [45, 45¼, 45¼, 45¾, 45¾, 46, 46] in. Place a marker between sts 28 and 29 [28 and 29, 29 and 30, 29 and 30, 30 and 31, 30 and 31, 31 and 32, 31 and 32]. Cast off.

FRONT

Work as for back to ***. K 34 [34, 34, 34, 38, 38, 38, 38] rows. 28 [28, 32, 32, 32, 32, 36, 36] rows less have been worked to shoulder than on back.
SHAPE NECK
Note patt row on card. Using a length of MY, cast off centre 28 [28, 30, 30, 32, 32, 34, 34] sts. Using nylon cord, K 35 [38, 41, 44, 47, 50, 53, 56] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 1 row. Dec 1 st at neck edge on every row until 21 [24, 27, 30, 33, 36, 39, 42] sts rem. K 13 [13, 17, 17, 17, 17, 21, 21] rows. Cast off. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to right without knitting. Release card and cont in lace patt. Finish to correspond with first side reversing shapings.

SLEEVES

Push 70 [70, 73, 73, 76, 76, 79, 79] Ns at left and right of centre 0 to WP. 140 [140, 146, 146, 152, 152, 158, 158] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MY, K 1 row. Insert punchcard and lock on first row. Set carriage for patt. K 1 row. Release card and cont in lace patt. Shape sides by inc 1 st at each end of every 4th row until there are 168 [168, 174, 174, 180, 180, 186, 186] sts. K 2 [2, 6, 6, 10, 10, 14, 14] rows. RC shows 60 [60, 64, 64, 68, 68, 72, 72] and work measures 15 [15, 16, 16, 17, 17, 18, 18] cm, 6 [6, 6¼, 6¼, 6¾, 6¾, 7, 7] in. Place marker at each end.
SHAPE TOP
Dec 1 st at each end of next 2 rows. * K 1 row. Dec 1 st at each end of next 2 rows; rep from * 7 more times. Cast off rem 132 [132, 138, 138, 144, 144, 150, 150] sts.

CUFFS

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 89 [89, 95, 95, 101, 101, 107, 107] sts in 1×1 rib. K 5 tubular rows. Work as for back from * to *.
MACHINES WITHOUT RIBBER
Push 89 [89, 95, 95, 101, 101,

32▶

◀30

107, 107] Ns to WP. Work as for back from * to *.

ALL MACHINES

With P side facing, replace 140 [140, 146, 146, 152, 152, 158, 158] sts at lower edge of sleeve on to Ns, gathering evenly. Using MT, K 1 row. Cast off.

COLLAR

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using white, cast on 140 [140, 146, 146, 152, 152, 158, 158] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 45 rows. Transfer sts for st st. Cast off.

MACHINES WITHOUT RIBBER

Push 140 [140, 146, 146, 152, 152, 158, 158] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and white, K 91 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. K 1 row. Cast off.

PRESSING

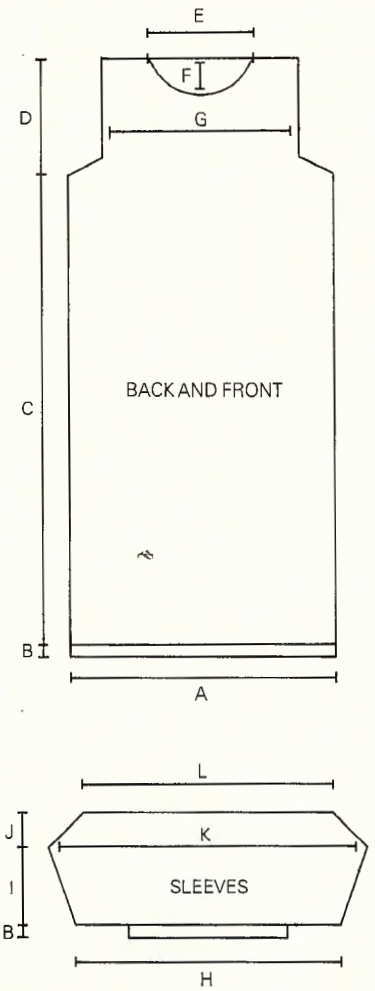
With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join shoulder seams. Set in sleeves between markers gathering tops. Join side and sleeve seams. Sew collar into position.

MACHINES WITHOUT RIBBER

Neaten open ends of collar.



A = 47.5 [50, 52.5, 55, 57.5, 60, 62.5, 65] cm
B = 2.5 cm
C = 89.5 cm
D = 22 [22, 23, 23, 24, 24, 25, 25] cm
E = 20 [20, 20.5, 20.5, 21, 21, 22, 22] cm
F = 7 [7, 8, 8, 8, 8, 9, 9] cm
G = 34.5 [37, 39.5, 42, 44.5, 47, 49.5, 52] cm
H = 50 [50, 52, 52, 54, 54, 56, 56] cm
I = 15 [15, 16, 16, 17, 17, 18, 18] cm
J = 6.5 cm
K = 60 [60, 62, 62, 64, 64, 66, 66] cm
L = 47 [47, 49, 49, 51, 51, 53, 53] cm

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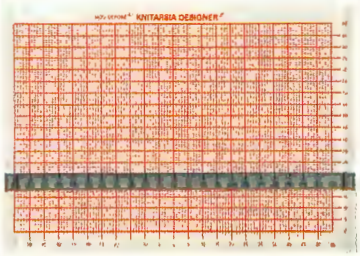

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TEACH-IN

JACQUARD KNITTING ON KNITMASTER AND BROTHER MACHINES — PART 2

Last month I wrote about knitting double jacquard. However, there wasn't space to explain why you were doing what you were doing. So this month I want to look at the "whys" and explain how to punch cards for jacquard knitting.

Ann Kite

First though let's have a recap on the knitting. For your first attempts I suggested you only used two colours and used a punchcard supplied with the colour changer. Or, if you have an electronic, you could use any two colour Fair Isle with the jacquard variation switch on. The needle set up is full needle rib (that is with every needle on both beds in working position) so the ribber is on half pitch. You use a fine yarn (that is two ply for standard gauge, double knit for the Brother 260 Chunky).

After the selection of memory rows (Fig.1) the main carriage is set to slip both ways and the ribber to knit every needle on every row (Fig.2). Then, using the main yarn, knit one row from right to left, change colour and knit two rows in the pattern colour, then change colour and knit two rows in the main colour.

This is the basic procedure. You always start with the carriage at the right and knit one row with the main colour, then it's two rows pattern colour, two rows main colour and so on.

So what's happening? Let's look at the ribber first. It's been set to knit every needle on every row (there are other settings on the new ribbers which I'll cover later), so after the first row you're getting stripes of two rows pattern colour, two rows main colour. So the ribber is behaving very simply on this set up and we can forget about it for the moment and concentrate on what the main bed is doing.

The main bed patterns on a four row cycle. **Row one.** That's the one knitted from right to left with the main colour when you started. On this row the carriage knits the background stitches and slips the pattern stitches. By pattern, I mean how the pattern would appear if you drew it out for ordinary single-bed Fair Isle (Fig.3), forget about the special colour changer card for the time being.

Row two. You've now changed to the pattern colour and on this row (knitted left to right) the carriage knits the pattern stitches and slips the background stitches for row one (Fig.3). So after knitting the first two rows the carriage has knitted one complete row of the design. (Row 1, Fig.3)

Row Three. This is knitted in the pattern colour from right to left. So the carriage knits the pattern stitches for the next row of the pattern (Row 2, Fig.3) and slips the background stitches.

Row four. You've changed colour again. So now with the main colour you knit (from left to right) the background stitches that you slipped on row three, that is the background stitches for row knits two complete rows of the design.

I hope you're beginning to see what you have to do when you punch a card out specially for double jacquard. Of course if you have an electronic machine it works it out for you electronically. However, if you're still not clear what's happening even if you have an electronic, mark out the pattern as if for a punchcard, on graph paper. I find when I teach in class that punching (or making) a card for double jacquard often clarifies the whole process. (When I bought my first ribber, way back in the '70s, like most other knitters I came to a dead halt. I could knit welts but nothing else. I took myself off to the school Knitmaster had in London then (it's no longer in existence) and spent a day working on the ribber. Knitmaster had just brought out their first colour changer. The two tutors were discussing it and how to punch the cards and so on, while I was working away on my Fisherman's rib. What I overheard (maybe I shouldn't have been listening!) put me off colour changers for years, it sounded so complicated. When I finally got round to it, I found it was much easier than I expected.)

So don't be put off. Do have a go.

We're now going to convert the little flower pattern in Fig.3 for double jacquard knitting. I've two, Fig.3. So after row four of the knitting you've completed the second row of the design.

These four rows form a complete cycle and every cycle designed this pattern for its simplicity and to illustrate various points. When the carriage is set to slip stitch, it knits the needles selected by the punched holes and slips those selected by the blanks.

Start by marking out the pattern stitches. Remember that the pattern stitches knit on rows two and three of the four row cycle. So mark out the pattern stitches (they are the marked squares) from row one Fig.3 on row two of the card and the pattern stitches from row two Fig.3 on row three of the card. (By rows two and three of the card I mean the rows two and three counting from the bottom of the card, **not** the rows opposite the numbers 2 and 3.) Now leave two rows blank on the card and mark out rows three and four Fig.3 on rows six and seven of the card. Miss two rows and then mark rows five and six Fig.3 on rows ten and eleven of the card.

Continue like this until all the pattern rows have been transferred. Your punchcard should now look like Fig.4. All the rows that knit in the pattern colour have been marked out. These are often called the positive rows. If you have a Knitmaster machine, in the pack of cards you got with the colour changer there is a punchcard sized piece of card marked out in blue and orange stripes. It's the check card. The blue stripes show the position of the positive rows. You place it behind the punchcard you've marked out and check that only blue is showing through the guide holes of any square you've marked. If there is any orange showing you've marked a wrong row.

If you prefer to work it all out on paper first, there are jacquard jotters available. These are graph paper or grids 24 stitches wide with the negative and positive rows marked out.

I prefer to mark out and then punch out the pattern (or positive) rows first. After punching them out, I check again using the Knitmaster check card. However, if you've a Brother machine, don't worry, any mistakes should show up during the next stage anyway!

After punching out the pattern (or positive) rows, we have to mark out and punch out the background rows, that is the negative rows.

Let's go back to our four row cycle and remind ourselves how we actually knitted and what was happening. On row one we knitted from right to left in the background colour, so we knitted the background stitches for the first row of Fig.3. So now we have to mark out the background stitches on row one of our card.

FIG. 1 CARRIAGE SETTINGS FOR FREE PASSES

ON KNITMASTER MACHINES

Main carriage	In released position
Ribber carriage set levers	0
Pick knob	←
(SRP60 only) Auto set lever	1
(SRP60 only) Driving cam for autoset	Not used

ON BROTHER MACHINES

		Not Selecting	Selecting
Main carriage	Part buttons	In	In
	Change knob	NL	KC
Ribber carriage	Cam levers	PR	PR
	Tucking lever	R	R
(850 only)	Change knobs	1	1

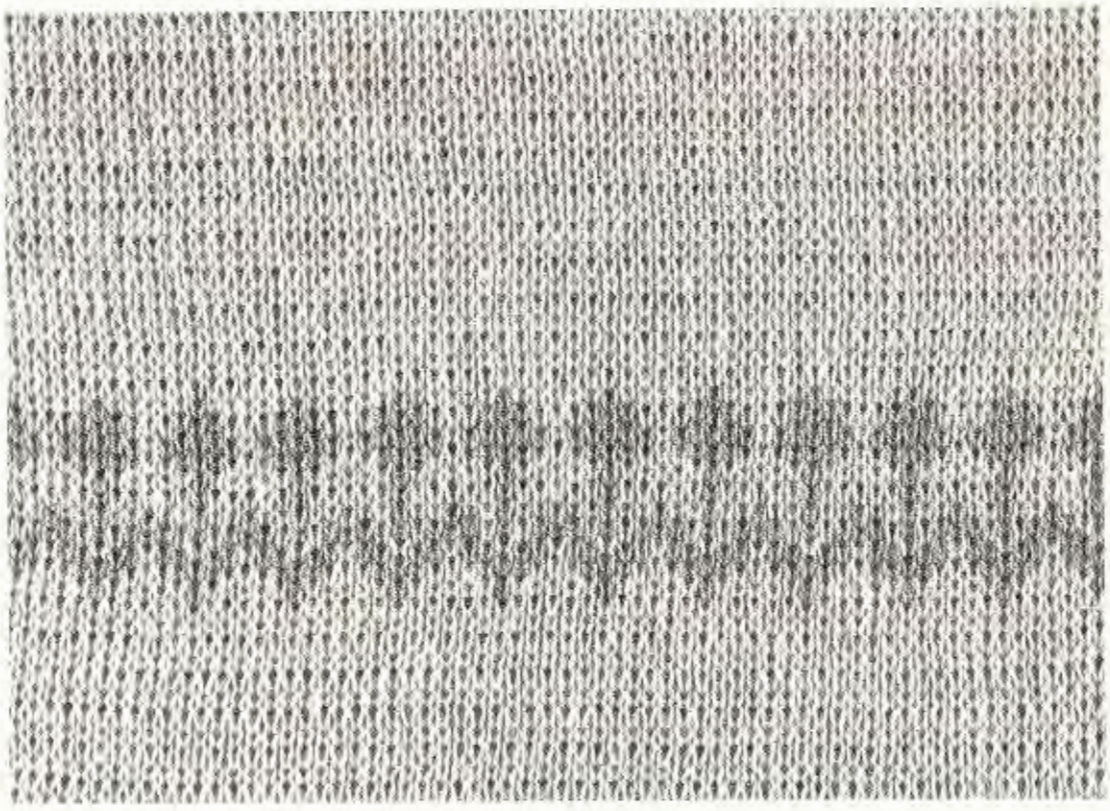
FIG. 2 CARRIAGE SETTINGS FOR DOUBLE JACQUARD

ON KNITMASTER MACHINES

Main carriage	Cam lever	S or SJ (electronic)
	Side levers	▽ (punchcard only)
Ribber	Set levers	1
	Pick knob	←
(SRP60 only)	Auto set	1
(SRP60 only)	Driving cam for auto set	Not used

ON BROTHER MACHINES

Main carriage	Part buttons	In
	Change knob	KC
Ribber	Cam levers	N
	Tucking lever	R
(850 only)	Change knobs	1



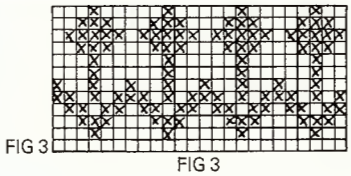


FIG 3

FIG 3
Pattern punched out for single bed
Fair Isle
Pattern repeat 12 rows long
(12th row is blank)
X marks punched holes.

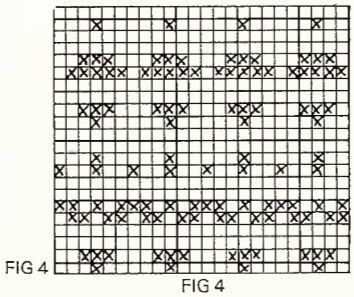


FIG 4

FIG 4
Positive rows of patterns in Fig 3
punched out in preparation for
double jacquard.
X marks punched holes.
Card starts with one blank row.

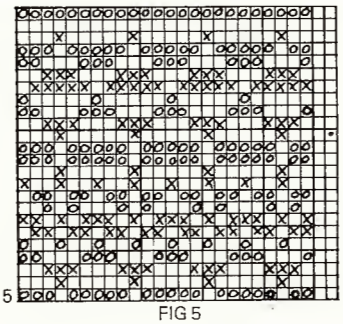


FIG 5

FIG 5
Pattern from Fig 3 completely
punched out for double jacquard.
X marks punched holes of positive
rows.
O marks punched holes of
negative rows.
Pattern repeat 24 rows long.

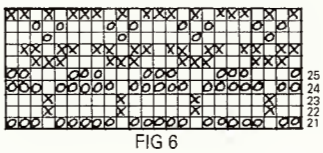


FIG 6

FIG 6
End of first repeat and start of
second when Fig 3 is used as 11
row pattern and punched out for
double jacquard.

That is you mark out any position on row one of the card that hasn't been punched on row two of the card. Row one on the card is the "negative" of row two.

(In the previous paragraph, by "position" I mean each of the possible 24 positions for a punched hole, reading across the card.)

On rows two and three we knitted the pattern stitches for rows one and two Fig.3 and we've already punched them out. On row three we knitted the background stitches for row two Fig.3, so now these have to be punched out on row four of the card. So row four on the card is the "negative" of row three on the card. That is, on row four you mark and punch out any position that hasn't been punched on row three.

You continue like this. On the first of any pair of blank rows you punch out any position that wasn't punched on the previous row and on the second blank row you punch out any position that isn't punched on the next row.

If you look at any of your pre-punched cards and (starting at the bottom) pair up the lines, you'll see that for any pair of lines every position on the card has been punched once, that is no position is blank on both rows and no position has been punched on both rows.

I hope you are still with me. It really has to be done to be understood and it's much easier to do than to read (or write) about. So do try! Try before looking at Fig.5 which shows you what the finished card should look like!

The pattern repeat punched out for jacquard is 24 rows long. If you were going to use the pattern for all-over jacquard (not just a border) you could now punch out a second repeat starting with row one (Fig.5) again. This is possible because the original pattern was an even number of rows long and when punched out for jacquard the number of rows in the repeat is divisible by four. Remember I said the jacquard cycle was four rows long. Row 24 therefore completes the cycle. After knitting row 24 the carriage will be at the right with the background yarn in ready to knit row one again.

Now let's look at what would happen if the original pattern repeat had only been eleven rows, then punched out for jacquard the pattern repeat would have finished at row 22 (Fig.5).

37▶

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Row 22 is only halfway through the four row cycle. After knitting row 22 the carriage is at the right, but with the pattern colour in. If in order to repeat the pattern you punched row one (Fig.5) after row 22, then when you knitted the pattern repeat you would find yourself knitting the first row of the second repeat in the pattern colour, not the background.

You must keep the negative-positive-positive-negative sequence correct. Rows 22 and 23 are positive rows. So for row 23 punch out the first **positive** row on the card (that's row two Fig.5). Row 24 is then the first negative row of the card (row one Fig.5), row 25 is the second negative row of the card (row four Fig.5) and row 26 the second positive row (row three Fig.5).

This sounds horribly complicated. But before you give up, punch the card for yourself, working it out for yourself. Just use my diagram (Fig.5) to check it out afterwards.

The easiest way when converting a Fair Isle punchcard for jacquard as I said earlier is to punch out the positive rows first. If your original pattern has an odd number of rows, then you'll have to punch out two repeats of the original pattern (even if a single repeat is long enough to physically join the card) in order to keep the negative-positive sequence correct. Always position the first and second position rows of the first repeat on rows two and three of the card, then leave the next two rows blank (these will be negative rows), then two punched positive rows and so on to the end of your two repeats. Now go back and fill in the negative rows as we did earlier.

The number of rows on a jacquard card must be divisible by four. The last row is always a negative or background row knitted left to right.

None of these complications arise if you're using an electronic machine of course. The machine will work it out for you.

Finally, how do you mark the card? A Knitmaster blank card is marked out ready for two-colour double jacquard. The rectangle drawn around the row numbers indicates that the row should be knitted in the main colour.

On a Brother punchcard the number indicating the colour is printed against the first of the two rows knitted in it. So row one (that is the number 1 on the card) doesn't have a number opposite it, as in continuous knitting it's the second of the two rows. Row two hs 2 against it, then row four, 1. Look at the cards that come with the colour changer to see what I mean.

On the Brother 950 and 950i electronics if you have the yellow light on, the number in the display panel indicates the colour. The number changes when you change direction with the carriage at the right. So when you're at the left the number tells you the colour you're about to knit.

Actually if you're only using two colours it's fairly simple. Once I've got into a rhythm I don't use the various markings and indicators so much. As I said last month, if the carriage is at the left and I'm wondering if I've changed colour, looking at what colour the ribber last knitted tells me the colour I've just used. (This doesn't apply to double face jacquard knitting on the Knitmaster SRP60N.) If the carriage is at the right and you're wondering if you **did** change colour when the carriage was at the left (!), it's more difficult to tell. If all the stitches on the main bed are in one colour, then you probably didn't. Though this isn't conclusive because you may just have a plain (single colour) row in the pattern. Then you may have to refer to your card marking, or pattern panel. On the Knitmaster electronic when the carriage is at the right, if the number one left-hand light is on you should be knitting with the pattern colour, if the number one right-hand light is on you should be knitting with the background colour.

Marking cards when you're using more than two colours is more important and more about that next month. Also next month, how to knit and punch a card for what I call plain jacquard. In other words, if you just want a border of pattern in jacquard, how do you knit the rest of the garment? In the photograph you can see the little flower pattern we've been playing around with, knitted as a border and followed by plain jacquard. It was knitted on a Brother 260 using double knitting.

Footnote: Jacquard Jotter available mail order, price £3.25 inc. p+p, from J. B. Haigh, 63 Gledholt Bank, Gledholt, Huddersfield, West Yorkshire. Tel: 0484 543814.

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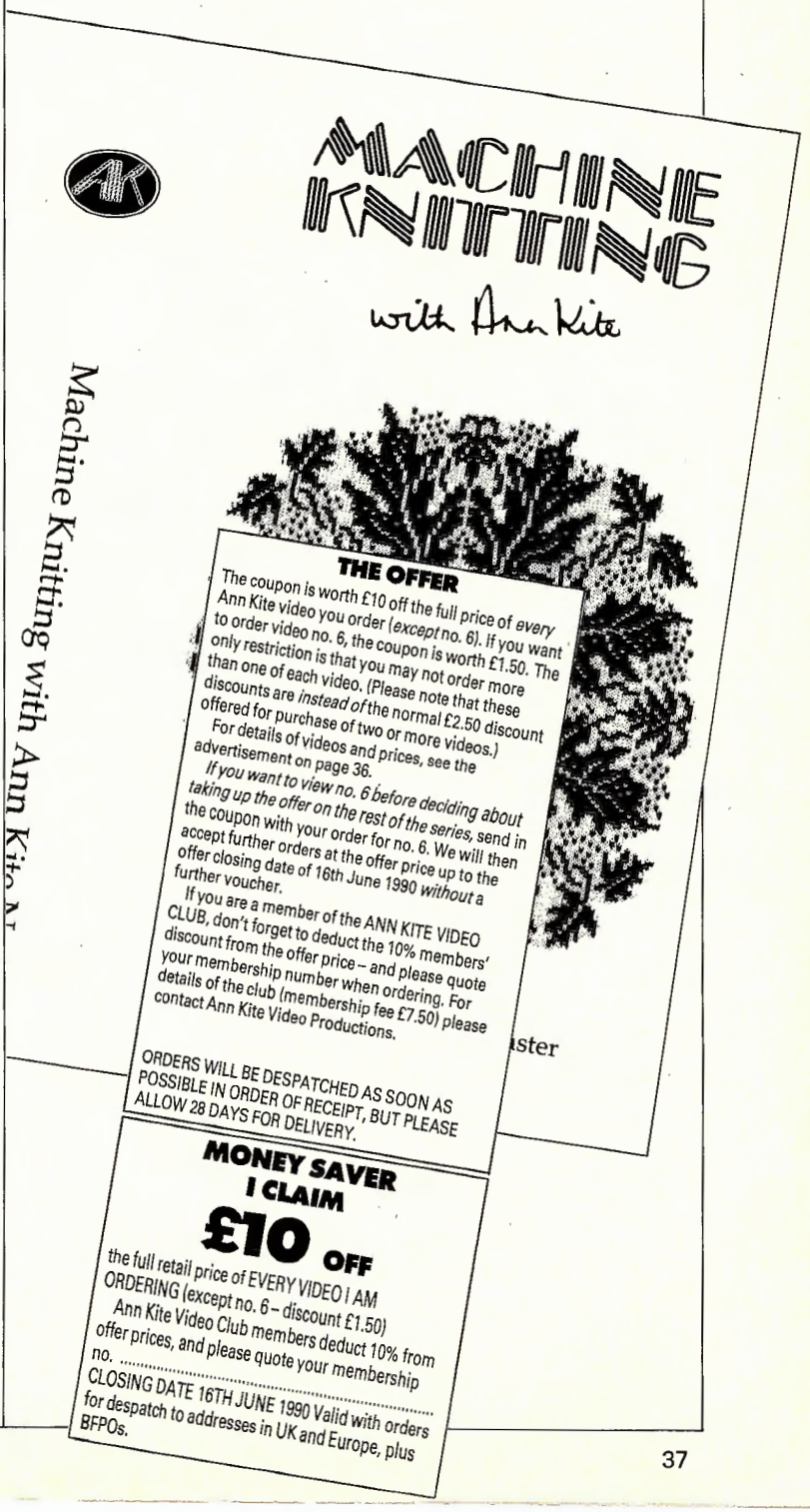
If you missed our SPECIAL OFFER last month, there's still time to save £10 off each Ann Kite video you buy (except No.6) using the coupon. We've printed the coupon again this month. YOU CAN USE THE APRIL COUPON OR THE MAY COUPON WITH YOUR ORDER, BUT NOT BOTH.

Thousands of knitters have used the Ann Kite video series, which forms a recognised method of obtaining good quality, cost effective tuition. (A three hour video contains the equivalent of ten to fifteen hours of private tuition.) Moreover, a video can be watched time and time again, at a time to suit *you*, at midnight if necessary!

Ann is so convinced of the value of her videos that she has produced a special video (No.6). It's special because you can watch it in your own home before deciding whether to buy it. It contains problem-solving sections from videos 1, 2 and 4, plus some new material. So by watching this video you can decide for yourself the value of the Ann Kite videos. Video No.6 is called "What to do when it all goes wrong!". Running time is 58 minutes and the special offer price is £13.45 (refunded in full if the video is returned).



KNITMASTER CORNER

I have a mixed bag of tricks for you this month, some from a letter and some from me as a result of letters. It is amazing how one query can trigger off a trend of thought and this is what happened when I read a letter from Mrs. Smith of Peterborough.

Ann Taylor

LARGER SIZES

Larger sizes have featured before in this column, as they always present a problem to those who do not have the Radar.

Mrs. Smith says Bramwell's Machine Knitting Book in fine four ply solves this problem for her. I have not tried the patterns from this book, but please do have a look at it if you want the larger sizes. The Marion Nelson cards go up to a 48 inch in some yarn, but the difficulty is always having enough needles to cope with the size.

Mrs. Smith goes on to say that the Harmony Guide to Machine Knitting Stitches is an invaluable book. I found it excellent too and they now have a second book on the market, as reasonably priced as the first.

I gather that skirt making is new to Mrs. Smith and she is about to tackle one but does not mention the style. Well, another good book is Mary Weaver's Skirt Book which has ribbed and main bed skirts in a variety of yarns. As with all of Mary's books there is much, much more than just patterns. You will find loads of information on techniques and the use of Shetland yarn to mention but two items.

If you have never tackled a skirt before then this is the book for you, it will really get you going. It was written for the Knitmaster 360 and Jones + Brother 881, but of course will be suitable for any machine providing one achieves the same tension.

In case you have not come across them, there is also a pack of Marion Nelson cards for skirts and they include circular, ribbed, four and six panelled skirts, plus two long evening skirt blocks. As always, they come in two ply, three ply and four ply yarns so there is a great choice. The ribbed skirts may be knitted in two strands of 2/30's acrylic and as they are ribbed, there is no curl to contend with.

In her long chatty letter, Mrs. Smith enthuses about a Knitmaster 302 which she acquired very recently at a very reasonable price, but it is minus a row counter and one or two other bits and pieces, including some of the pattern cards. Do contact Knitcraft at West Drayton, Middlesex. I am sure they will be able to supply the missing pieces. They have an enormous stock for the older machines and for the new ones of course and are always worth a try.

Finally in her letter Mrs. Smith asks for some hints and tips about industrial yarns, having arrived home with some 'Bargain Buys'!

What a familiar ring that statement has.

INDUSTRIAL COUNTS

ost of us are familiar with plys of yarn but when we find an industrial bargain we can be left wondering if it is such a bargain after all.

This feeling usually sets in the day after the 'Big Buy' when confronted with cones of yarn in various thicknesses and an unfamiliar set of figures inside the cone. Sometimes one is lucky and the yarn is the colour and thickness that it says on the label inside. Sometimes the yarn has been wound off on to another cone and the label inside bears no relation at all to the yarn it carries!

Some firms are very good and cross through the label when this happens and some do not.

Instead of ply, industry it would seem uses a "count" and briefly the following table may be of some help. Most of this sort of information I gleaned from the Mary Weaver book of Technology and Patterns – where else?

Count	Approximate
2/8	4 ply, thick
2/10	4 ply, fine
2/12	3 ply
2/16	2 ply, thick
2/20	2 ply, fine
2/28	1 ply, thick
2/30	1 ply, fine
2/32	1 ply
2/34	1 ply, fine
2/36	1 ply, very fine

Please note that it is the approximate equivalent in ply.

MIXING AND MATCHING

This is where the fun starts and before going any further, unless one has a wool winder, the bargain buy may not be such a bargain. For instance, one strand of 2/30 is very fine and unless used for linings or on a fine gauge machine or lacy stoles, it is not going to be used very often in one strand. Buying three cones of the same colour can be the answer but, as the cones are usually quite large, you may end up with a nearly never ending supply of one colour!

Three strands of 2/30's makes approximately a four ply yarn, hence the need for a wool winder.

I have a wool winder with separate cones, so I wind off one quantity, then run two strands together on to another cone and then finally add the third strand. This entails quite a lot of winding and an electric wool winder is a boon. Do remember that children are often willing to do this job for you, under supervision, at least on a couple of occasions until the novelty wears off. Then they get bored with the whole procedure and it is back to square one. I have heard of some husbands who take the job on – not many I grant you, but some do.

2/30 acrylic is one of the most popular of industrial yarns. Many shops now stock repeatable colours in 2/30's but do remember if you are finding a bargain, ensure there is enough on the cone for whatever you have in mind because they are not always repeatable.

HOW LONG IS A PIECE OF STRING?

Inevitably when discussing industrial yarn, someone comes up with the question "How much four ply will 500 grammes of 2/30's make?".

The answer is 500 grammes of four ply.

It all goes back to yardage – it may well be metric now, but I am still in yards where this is concerned.

The finer the yarn, the more yardage there is to weight. It is only because you choose to "ply" it up that it becomes thicker, but the overall weight remains the same.

I am sure this has been obvious to most of you but I have met up with a lot of people, new to machine knitting, who have been thrown by this.

2/16 EQUALS TWO PLY
2/20 EQUALS TWO PLY FINE

This is the count often found on Botany and Lambswool and it may not easily be recognisable as wool unless one has a good sniff at it! Handling the cone of yarn may give you a clue, your hands may feel a little oily. Once you have sniffed the yarn you will soon recognise the smell of oil. When touched with a match, an end of wool will smoulder, but I do not recommend setting fire to pieces of yarn on the premises you buy from – though I have seen it done. Try it in the safety of your own home by all means.

Incidentally, if you apply a match to a strand of acrylic, it will flare and then dissolve into a hard lump – but please – do not test in yarn shops! Ask for the information from the owner or assistant.

MIXTURES

Fifty per cent wool and fifty per cent acrylic or twenty per cent wool and eighty per cent acrylic are harder to define and to be honest, I have not found any that I know of in industrial yarn. The only cones I have found have been short weight branded yarns, sold without their label, but I was told by the proprietor what the yarn was and the content.

2/8 COUNT

This is usually found on a cone of Shetland yarn and knits up as a four ply, but – it is not knitted at a four ply tension.

I can just hear newcomers groaning and saying – here we go again!

True – very true!

Coned Shetland yarn is spun in oil. On the cone it will look stringy and dull. If knitted at the normal four ply tension of six or seven, the garment fabric will be harsh and hard and look awful and at the first wash will mat or shrink, or both.

Some years ago I visited Covent Garden and went around enjoying all the craft stalls. It was an extremely hot summer's day and as I approached a stall overrun with gaily coloured Fairlsle garments, I got more than a whiff of woolly oil! There they were, many, many well made and beautifully coloured garments, all still with the oil in and the smell was quite overpowering when one was right by the stall.

I shudder to think of the

reaction of the customers when the garment was washed for the first time, as they were quite pricey.

It is this sort of lack of attention to oiled yarn that has probably given wool in general and Shetland in particular such a bad name over the years, to some people. What should happen is that the oil is washed out and the yarn expands and fluffs up, making the lovely soft fabric we recognise as Shetland. All this, providing it has been knitted at the correct tension. Too tight a tension and the yarn cannot expand properly and it matts and shrinks.

2/8 coned oiled Shetland needs to be knitted at about tension eight •• (eight and two dots) some people knit it on tension ten. You must experiment as there are different qualities of yarn.

Knit the tension swatch at the loose tension, then wash it well in hot water with washing up detergent or liquid detergent of some kind.

You will find that all the bubbles disappear and the water becomes a milky colour. Rinse the swatch well and put some fabric conditioner in the final rinse. Squeeze out the moisture and dry the swatch flat – see how soft and fluffy it becomes. When dry, steam press the swatch and measure it in the usual way and you will find that it comes out at pretty well the twenty eight stitches and forty rows to four inches or ten centimetres – the usual four ply tension

Now you can go ahead and knit your garment at the same large tension as you did your swatch.

I usually finish the garment off completely, sewing it up and neatening ends, then I wash it in exactly the same as for the swatch. Next I spin it and spread a large towel on the floor, place the garment on it and gently pull it into shape and the correct size and pat it smooth. It is usually dry by morning and sometimes requires a light steam press. Normal washing from then on, of course, but I turn the garment inside out which helps to prevent pilling. That is the name for those horrible little bobbles that appear usually on the sleeves and are caused by friction. I hand wash the garment in a liquid wool detergent, rinse well and have a conditioner in the final rinse and then dry it flat again.

If the yarn is super wash (S/W) it may be washed in the washing machine. I have done this, particularly with Shetland skirts that have been stabilised with fusable nylon – but the sweaters I usually hand wash – just in case.

LAMBSWOOL, BOTANY AND CASHMERE

These yarns are also in oil on the cones and although usually much finer (2/16), need to be knitted at a much looser tension than normal for two ply, then treated in exactly the same way as for Shetland.

One further thought. If the carriage is hard to push when knitting oiled yarn at a loose tension, try spraying the cone with a silicone spray. Usually about four times for a sweater will be enough and improve the performance of the carriage, but do remember to spray the yarn for the tension swatch also.

All these things to remember – it gets a bit much!

I had a job remembering the counts at first so I carried a note of them in my handbag, along with sizes of the family and amounts of yarn it took for their garments. It was not long before I learned them as I was always buying yarn (still am!) and referring to the list. In those days most knitters had to use hand knitting yarn and the find of an industrial cone was manna indeed.

I hope this has been helpful. It is certainly a subject that one can go on about ad infinitum, so maybe we can come back to it sometime in the future.

FINE YARNS

Several knitters have asked about using one or two ply yarns on standard gauge machines.

There are some tuck lace patterns that look and feel lovely when knitted in one or two ply yarn, or using two strands of 2/30's. Garment patterns however, appear few and far between. There was a standard one for a bed jacket or evening shawl some years back, but I have not noticed many since. This of course is where the Radar scores every time because once one has done the tension swatch and chosen the shape for the garment, one just sets up the Radar and gets on with the knitting.

Skirts in full needle rib or circular skirts on the single bed are nice in two ply yarns and a crochet hem or a machine knit finish adds the necessary weight to the hem. Ribbed skirts are an ideal garment for the finer yarns. Tuck stitch tops are suitable and Fair Isle in two two ply yarns make a lovely warm garment without too much bulk.

Usually the ribbed welt presents a problem with fine yarn, but there are ways round it.

Mock ribs are always better if knitted on a tight tension and if using two ply for the main part of the garment, then use two strands for the welts. Likewise, when using two strands of 2/30's, use three strands for the welts. The problem then is, as always, to remember to remove the extra strand before commencing the body of the garment!

Hems in fine yarn can be improved by knitting the underside of the hem in one strand tightly and then using two strands for the main part of the garment.

The lining of jackets and single motifs can be done in fine yarn, or for that matter, lining anywhere there are long floats needing to be concealed.

STOP PRESS

Sadly we have heard that Argyll Wools have ceased trading but the good news for those who have been long-established fans of their coned yarns is that many of them will still be available.

The Argyll Cone Collection has been stocked by B.S.K. of Bedford for the past two years and they have now taken in the entire remaining stocks. Three favourite ranges, Ferndale, Sterling and Starlite, will be continued by B.S.K. as part of their range so if you want details the address is B.S.K. Ltd., Murdock Road, Manton Industrial Estate, Bedford MK41 7LE.

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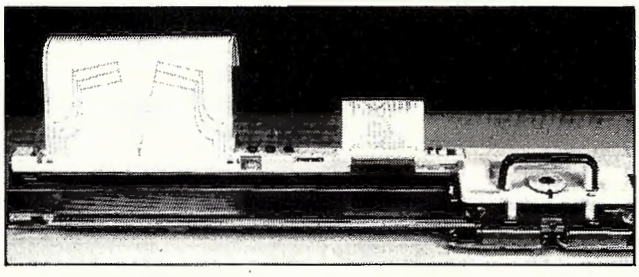

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6A V-NECK SWEATER

PATTERN RATING

** Fairly easy for knitters with some experience

MACHINES

This pattern is suitable for standard gauge punchcard machines with lace carriage and with or without a ribber.

MATERIALS

Bramwell Hobby and Silky.
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone Hobby in Butter (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone Silky in Butter (MY).

GARMENT WEIGHT

Finished garment in second size weighs 225g.

The fibre content of Hobby is 83% Acrylic, 17% Nylon: Silky is 100% Bright Acrylic. For further details about local or mail order stockists, please write to F. W. Bramwell & Co. Ltd., Unit 5, Metcalf Drive, Altham Lane, Altham, Accrington BB5 5TU.

YARN THICKNESS

One strand of Hobby knitted with one strand of Silky is medium weight and knits as four ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 88 [93, 98, 103, 108, 113, 118, 123] cm, 34¾ [36½, 38½, 40½, 42½, 44½, 46½, 48½] in.
Length to shoulder 56 [56, 57, 57, 58, 58, 59, 59] cm, 22 [22, 22½, 22½, 23, 23, 23¼, 23¼] in.
Sleeve seam 25 [25, 26, 26, 27, 27, 28, 28] cm, 10 [10, 10¼, 10¼, 10¾, 10¾, 11, 11] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

24 stitches and 46 rows to 10 cm, 4 in measured over lace pattern using two strands of yarn together (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Punch card, as shown, before starting to knit. This pattern is suitable for Jones+Brother punchcard machines. Toyota 901 owners should reverse the card before knitting. For other models, we suggest you substitute a similar lace pattern specially recommended for your machine. Two strands of yarn are used together throughout. We used card 514 from the Brother Punchcard Pattern Book and reproduce it courtesy of Jones+Brother. For further information about their cards and machines, please write to Jones+Brother, Shepley Street, Audenshaw, Manchester M34 5JD.

BACK

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push 54 [57, 60, 63, 66, 69, 72, 75] Ns at left and right of centre 0 to WP. 108 [114, 120, 126, 132, 138, 144, 150] Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

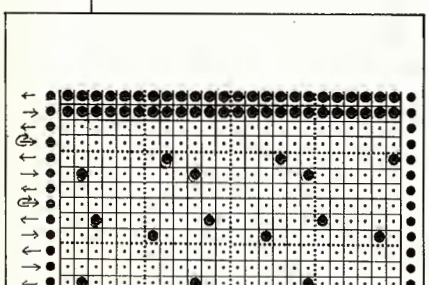
Push 54 [57, 60, 63, 66, 69, 72, 75] Ns at left and 53 [56, 59, 62, 65, 68, 71, 74] Ns at right of centre 0 to WP. 107 [113, 119, 125, 131, 137, 143, 149] Ns. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. Inc 1 st at right edge. 108 [114, 120, 126, 132, 138, 144, 150] sts.

ALL MACHINES

Insert punchcard and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 128 rows. RC shows 130 and work measures 33 cm, 13 in. Place marker at each end.

SHAPE ARMHOLES

Dec 1 st at each end of next and every foll alt row until 84 [90, 96, 102, 108, 114, 120, 126] sts rem *. K 83 [83, 87, 87, 93, 93, 97, 97] rows. RC shows 236 [236, 240, 240, 246, 246, 250, 250] and work measures 56 [56, 57, 57, 58, 58, 59, 59] cm, 22 [22, 22½, 22½, 23, 23, 23¼, 23¼] in. Place a marker between sts 24 and 25 [24 and 25, 25 and 26, 25 and 26, 26 and 27, 26 and 27, 27 and 28, 27 and 28] at left and right of centre 0. Cast off.



FRONT

Work as for back to *. K 1 [1, 5, 5, 11, 11, 15, 15] rows. 82 rows less have been worked to shoulder than on back.

SHAPE NECK

Note patt row on card. Using nylon cord, K 42 [45, 48, 51, 54, 57, 60, 63] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 2 rows. Dec 1 st at neck edge of next and every foll 3rd row until 28 [31, 30, 33, 32, 35, 34, 37] sts rem, then on every foll 4th row until 18 [21, 23, 26, 28, 31, 33, 36] sts rem. Cast off. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to right without knitting. Release card and cont in lace patt. Finish to correspond with first side reversing shapings.

SLEEVES

Push 44 [44, 46, 46, 48, 48, 51, 51] Ns at left and right of centre 0 to WP. 88 [88, 92, 92, 96, 96, 102, 102] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 6 [6, 6, 6, 7, 7, 7, 7] rows. Shape sides by inc 1 st at each end of next and every foll 7th [7th, 7th, 7th, 8th, 8th, 8th, 8th] row until there are 112 [112, 116, 116, 120, 120, 126, 126] sts. K 16 [16, 20, 20, 14, 14, 18, 18] rows. RC shows 102 [102, 106, 106, 112, 112, 116, 116] and work measures 22 [22, 23, 23, 24, 24, 25, 25] cm, 8¾ [8¾, 9, 9, 9½, 9½, 9¾, 9¾] in. Place marker at each end.

SHAPE TOP

Dec 1 st at each end of next and every foll alt row until 88 [88, 92, 92, 96, 96, 102, 102] sts rem. K 1 row. Cast off.

CUFFS

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 80 [80, 83, 83, 86, 86, 89, 89] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 14 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

Push 80 [80, 83, 83, 86, 86, 89, 89] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 29 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed.

ALL MACHINES

With P side facing, replace 88 [88, 92, 92, 96, 96, 102, 102] sts from lower edge of sleeve on to Ns, gathering evenly. Using MT, K 1 row. Cast off.

NECKBAND

MACHINES WITH RIBBER

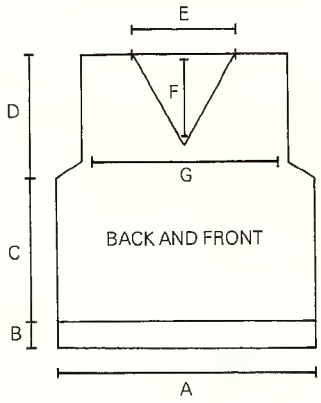
With ribber in position and carriage at right, set machine for

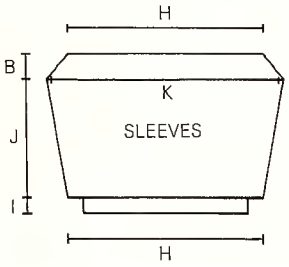
Hat THE HAT SHOP Shirt Lakeland Earrings NEXT

42▶

◀40

A = 45 [47.5, 50, 52.5, 55, 57.5, 60, 62.5] cm
B = 5 cm
C = 28 cm
D = 23 [23, 24, 24, 25, 25, 26, 26] cm
E = 20 [20, 20.5, 20.5, 21.5, 21.5, 22.5, 22.5] cm
F = 18 cm
G = 35 [37.5, 40, 42.5, 45, 47.5, 50, 52.5] cm
H = 36 [36, 38, 38, 40, 40, 42, 42] cm
I = 3 cm
J = 22 [22, 23, 23, 24, 24, 25, 25] cm
K = 46 [46, 48, 48, 50, 50, 52, 52] cm





1×1 rib. Using MY, cast on 173 [173, 179, 179, 185, 185, 191, 191] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 11 rows. Transfer sts for st st. Using MT, K 1 row. Using WY, K a few rows and release from machine.

MACHINES WITHOUT RIBBER

Push 173 [173, 179, 179, 185, 185, 191, 191] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 21 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. Using MT, K 1 row. Using WY, K a few rows and release from machine.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join shoulder seams. Set in sleeves between markers. Join side and sleeve seams. Join neckband seam forming a mitre. Pin neckband into position. Unravelling WY as required, backstitch through open loops of last row worked in MY.

6B SIDEWAYS KNITTED STOCKING STITCH SKIRT

PATTERN RATING

* Easy to knit.

MACHINES

This pattern is suitable for standard gauge machines.

MATERIALS

Bramwell Hobby and Silky.
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone Hobby in Butter (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone Silky in Butter (MY).
Elastic to fit waist.
3 mm crochet hook.
GARMENT WEIGHT
Finished garment in second size weighs 380g.

The fibre content of Hobby is 83% Acrylic, 17% Nylon. Silky is 100% Bright Acrylic. For further details about local or mail order stockists, please write to F. W. Bramwell & Co. Ltd., Unit 5, Metcalf Drive, Altham Lane, Altham, Accrington BB5 5TU.

YARN THICKNESS

One strand of Hobby knitted with one strand of Silky is medium weight and knits as four ply.

MEASUREMENTS

To fit waist 61 [66, 71, 76, 82, 87, 92, 97] cm, 24 [26, 28, 30, 32, 34, 36, 38] in.
Actual size 67.5 [72.5, 77.5, 82.5, 87.5, 92.5, 97.5, 102.5] cm, 26½ [28½, 30½, 32½, 34½, 36½, 38½, 40½] in.
Knitted length to waistband 64 cm, 25¼ in to drop to 71 cm, 28 in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

28 stitches and 40 rows to 10 cm, 4 in measured over stocking stitch using two strands of yarn together (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. When shaping in HP, always take yarn round first inside N in HP to prevent a hole forming. Two strands of yarn are used together throughout.

TO KNIT

Push 196 Ns to WP. Using MT and WY, cast on and K a few rows, ending with carriage at right. Set RC at 000. Using MY, K 2 rows. * Push 22 Ns at left to HP, K 2 rows. Push 11 Ns at left to HP on next and foll 13 alt rows, K 1

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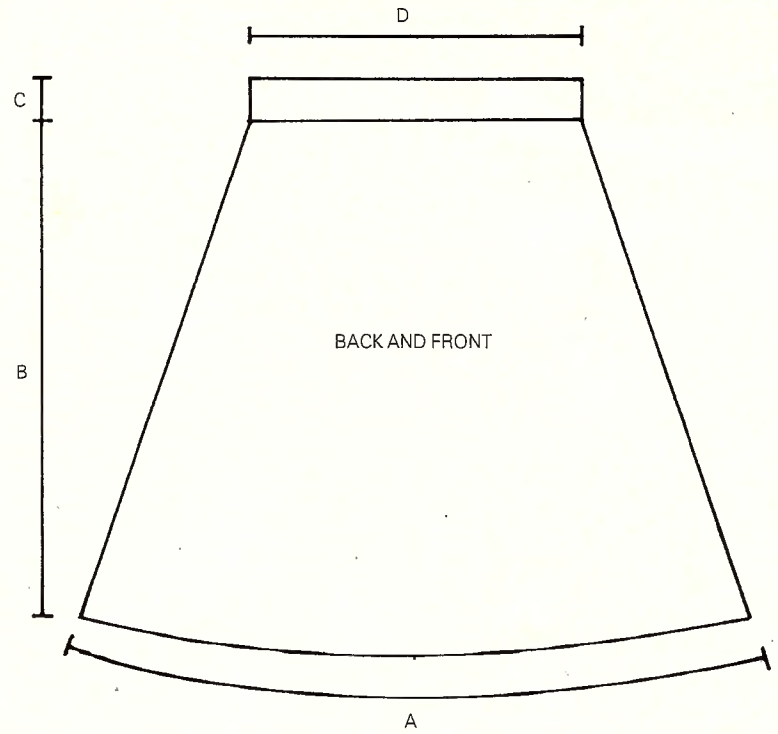
row **. Push Ns from HP to UWP, K 10 rows *, rep from * to * 25 [27, 29, 31, 33, 35, 37, 39] times more, then from * to ** once. Push Ns from HP to UWP, K 7 rows. Using WY, K a few rows and release from machine.

PRESSING

With wrong side facing, pin out pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Graft seam. Turn in 3 cm at waist edge and slip hem on the inside, leaving a small opening. Insert elastic and join ends securely. Close opening. Work one row of double crochet and one row of crab st (double crochet worked from left to right) around lower edge. Alternatively, work a knitted edging around lower edge as follows:- With carriage at right, P side facing and using treble transfer tool, start at seam and pick up 3 sts from lower edge and place on to Ns. Using MT–1 and MY, K 6 rows. * Working from right to left, pick up next 3 sts from lower edge and place on to same 3 Ns; K 6 rows. Rep from * around lower edge, ending by placing first 3 sts back on to machine, K 1 row and cast off. Press edging.



A = 270 [290, 310, 330, 350, 370, 390, 410] cm*
B = 64 cm [to drop to 71 cm]
C = 3 cm
D = 67.5 [72.5, 77.5, 82.5, 87.5, 92.5, 97.5, 102.5] cm*

* = Total Circumference

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10/25

7 FLORAL SWEATER AND PLAIN SKIRT

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard or electronic machines with or without a ribber.

MATERIALS

King Cole Anti-Tickle 4-ply.
1 [2, 2, 2] × 500g cones in Sand 39 (MC).
1 [1, 1, 1] × 500g cone in White 1 (C).
Elastic to fit waist.

GARMENT WEIGHT
Finished sweater in first size weighs 490g.
Finished skirt in first size weighs 305g.

The fibre content of this yarn is 100% Wool. For further details about local or mail order stockists, please write to King Cole Ltd., Merrie Mills, Old Souls Way, Bingley BD16 2AX.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

SWEATER
To fit bust 87 [92, 97, 102] cm, 34 [36, 38, 40] in.
Actual size 94 [100, 105, 111] cm, 37 [39½, 41¼, 43¾] in.
Length to shoulder 71 [72, 73, 74] cm, 28 [28½, 28¾, 29¼] in.
Sleeve seam 45.5 [47, 48, 49] cm, 18 [18½, 19, 19¼] in.

SKIRT
To fit hips 92 [97, 102, 107] cm, 36 [38, 40, 42] in.
Actual size 98 [103, 108, 113] cm, 38½ [40½, 42½, 44½] in.
Length 67.5 [69, 70, 71.5] cm, 26½ [27¼, 27½, 28¼] in (adjustable).

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

33 stitches and 36 rows to 10 cm, 4 in measured over Fair Isle pattern (tension dial setting approximately 8).
32 stitches and 40 rows to 10 cm, 4 in measured over stocking stitch on MT−1 (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Punch card, as shown, before starting to knit. Fill in pattern card, as shown, before starting to knit.

KNITMASTER ELECTRONIC MACHINES
Place needle 1 cam at centre 0. Press button 2 (left) for 560 machines or 2 (right) for 580 machines.

SWEATER

BACK

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 82 [87, 91, 96] Ns at left and right of centre 0 to WP. 164 [174, 182, 192] Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MC, cast on and K 3 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−5/MT−5, K 28 rows. Transfer sts for st st *. Inc 1 st at right edge. 165 [175, 183, 193] sts.

MACHINES WITHOUT RIBBER
Push 82 [86, 91, 95] Ns at left and 82 [87, 91, 96] Ns at right of centre 0 to WP. 164 [173, 182, 191] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT−2 and MC, K 57 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed *.

1ST AND 3RD SIZES
Inc 1 st at right edge.

2ND AND 4TH SIZES
Inc 1 st at each end.

ALL SIZES
165 [175, 183, 193] sts.

ALL MACHINES
Insert card and lock on first row. Take carriage across twice without knitting. Release card and cont in Fair Isle patt with MC in feeder 1/A and C in feeder 2/B. Set RC at 000. Using MT, K 10 rows. Shape sides by dec 1 st at each end of next and every foll 8th row until 143 [153, 161, 171] sts rem. K 7 rows. Inc 1 st at each end of next and every foll 8th row until there are 157 [167, 175, 185] sts. K 13 [17, 17, 21] rows. RC shows 160 [164, 164, 168] and work measures 51.5 [52.5, 52.5, 53.5] cm, 20¼ [20¾, 20¾, 21] in.

SHAPE ARMHOLES
Cast off 8 sts at beg of next 2 rows. Dec 1 st at each end of next and every foll alt row until 121 [125, 129, 133] sts rem **. K 49 [43, 43, 37] rows. RC shows 230 [234, 238, 242] and work measures 71 [72, 73, 74] cm, 28 [28½, 28¾, 29¼] in.

SHAPE NECK AND SHOULDERS
Note patt row on card. Using nylon cord, K 83 [85, 90, 92] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. Dec 1 st at neck edge on every row and *at the same time,* cast off 8 [8, 8, 9] sts at beg of next and foll 2 alt rows, K 1 row. Cast off rem 8 [10, 9, 8] sts. With carriage at right, unravel nylon cord over 45 [45, 51, 51] Ns at right bringing Ns back to WP. Using WY, K a few rows in st st and release from machine. With carriage at right, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to left without knitting. Release card and cont in Fair Isle patt. Finish to correspond with first side, reversing shapings.

FRONT

Work as for back to **. 19 [13, 13, 7] rows. 30 rows less have been worked to shoulder than on back.

SHAPE NECK
Note patt row on card. Using nylon cord, K 71 [73, 78, 80] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side, K 1 row. Cast off 4 sts at beg of next and foll alt row. Dec 1 st at neck edge of next 6 rows. Dec 1 st at neck edge of next and foll 3 alt rows. 32 [34, 33, 35] sts. K 13 rows.

SHAPE SHOULDER
Cast off 8 [8, 8, 9] sts at beg of next and foll 2 alt rows, K 1 row. Cast off rem 8 [10, 9, 8] sts. With carriage at right, unravel nylon cord over 21 [21, 27, 27] Ns at right bringing Ns back to WP. Using WY, K a few rows in st st and release from machine. With carriage at right, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to left without knitting. Release card and cont in Fair Isle patt. Finish to correspond with first side, reversing shapings.

SLEEVES

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 35 [35, 37, 37] Ns at left and right of centre 0 to WP. 70 [70, 74, 74] Ns. Work as for back from * to *. Inc 1 st at right edge. 71 [71, 75, 75] sts.

MACHINES WITHOUT RIBBER
Push 35 [35, 37, 37] Ns at left and 36 [36, 37, 37] Ns at right of centre 0 to WP. 71 [71, 74, 74] Ns. Work as for back from * to *.

3RD AND 4TH SIZES
Inc 1 st at right edge.

ALL SIZES
71 [71, 75, 75] sts.

ALL MACHINES
Insert card and lock on first row. Take carriage across twice without knitting. Release card and cont in Fair Isle patt with MC in feeder 1/A and C in feeder 2/B. Set RC at 000. Using MT, K 2 rows. Shape sides by inc 1 st at each end of next and every foll 5th row until there are 125 [125, 129, 129] sts. K 7 [11, 15, 19] rows. RC shows 140 [144, 148, 152] and work measures 45.5 [47, 48, 49] cm, 18 [18½, 19, 19¼] in.

SHAPE TOP
Cast off 8 sts at beg of next 2 rows. Dec 1 st at each end of next and every foll alt row until 93 sts rem, then on every row until 37 sts rem. Cast off.

NECKBAND

Join shoulder seam.

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MC, cast on 144 [144, 156, 156] sts in 1×1 rib. K 3 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−5/MT−5, K 30 rows. Transfer sts for st st. Using MT−1, K 1 row.

MACHINES WITHOUT RIBBER
Push 143 [143, 155, 155] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT−1 and MC, K 8 rows. Using MT−2, K 15 rows. Using MT−1, K 8 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed. Using MT, K 1 row.

ALL MACHINES
With P side facing, pick up sts around neck edge and place on to Ns. Using MT+2, K 1 row. Cast off.

PRESSING

With wrong side facing, pin out all

47 ▶

BACK

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push 61 [64, 68, 71, 74, 77, 80, 83] Ns at left and right of centre 0 to WP. 122 [128, 136, 142, 148, 154, 160, 166] Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st *.

MACHINES WITHOUT RIBBER

Push 61 [64, 67, 70, 73, 76, 79, 82] Ns at left and right of centre 0 to WP. 122 [128, 134, 140, 146, 152, 158, 164] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *.

3RD, 4TH, 5TH, 6TH, 7TH AND 8TH SIZES

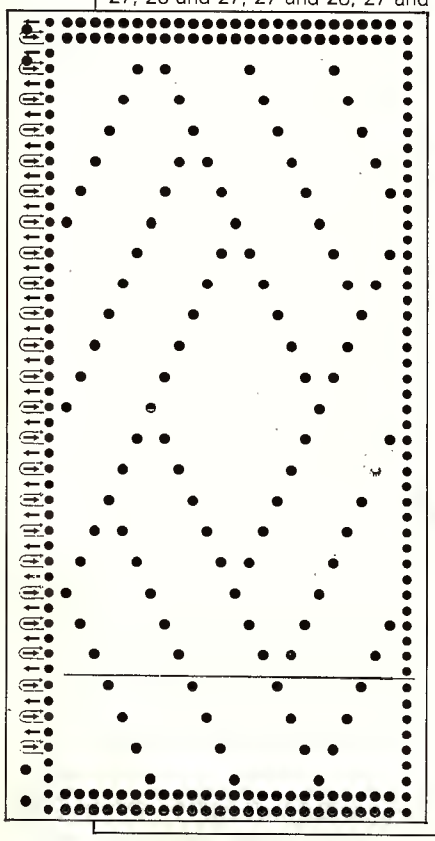
Inc 1 st at each end.

ALL SIZES

122 [128, 136, 142, 148, 154, 160, 166] sts.

ALL MACHINES

Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 228 rows. RC shows 230 and work measures 55 cm, 21¾ in. Place marker at each end. K 102 [102, 106, 106, 112, 112, 116, 116] rows. RC shows 332 [332, 336, 336, 342, 342, 346, 346] and work measures 77 [77, 78, 78, 79, 79, 80, 80] cm, 30¼ [30¼, 30¾, 30¾, 31, 31, 31½, 31½] in. Place marker between sts 25 and 26 [25 and 26, 26 and 27, 26 and 27, 27 and 28, 27 and 28, 28 and 29, 28 and 29] at left and right of centre 0. Cast off.



8 LONG LINE LACE CARDIGAN

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with lace carriage and with or without a ribber.

MATERIALS

Studley Suki and Suki Smooth (see knitting notes below).
7 [1, 1, 1, 1, 1, 1, 1] × 350g cone Suki in Black (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 350g cone Suki or Suki Smooth in Black (MY).
7 buttons.

GARMET WEIGHT

Finished garment in second size weighs 400g.

The fibre content of Suki is 96% Acrylic, 4% Nylon. Suki Smooth is 100% Acrylic. These yarns are obtainable by mail from B.S.K. Limited, Murdock Road, Manton Industrial Estate, Bedford MK41 7LE. See special offer coupon on p.52.

YARN THICKNESS

One strand of Suki knitted tog with one strand of Suki Smooth is fine weight and knits as two ply. Two strands Suki knitted tog are medium fine weight and knit as three ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 96 [101, 106, 111, 116, 121, 126, 131] cm, 37¾ [39¾, 41¾, 43¾, 45¾, 47¾, 49½, 51½] in.
Length to shoulder 77 [77, 78, 78, 79, 79, 80, 80] cm, 30¼ [30¼, 30¾, 30¾, 31, 31, 31½, 31½] in.
Sleeve seam 46 [46, 46, 46, 47, 47, 47, 47] cm, 18 [18, 18, 18, 18½, 18½, 18½, 18½] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

25 stitches and 46 rows to 10 cm, 4 in measured over lace pattern using one strand of Suki and Suki Smooth tog (tension dial setting approximately 7). OR two strands of Suki (tension dial setting approximately 6).

For perfect results, please check your tension carefully.

KNITTING NOTES

We used knit side of knitting as right side of garments. Two strands of yarn are used tog throughout. The garment can be knitted either all in Suki or in Suki and Suki Smooth. For a lightweight fluid effect use one strand Suki with one strand Suki Smooth. For a crisper, heavier fabric, use two strands of Suki. The same tension can be achieved with each yarn combination.

Punch card as shown before starting to knit. We used Toyota card 16 for Toyota KS901 machines for this pattern and reproduce it courtesy of Toyota. For further information about Toyota cards and machines, please write to Aisin Company (UK) Limited, 34 High Street, Bromley, Kent BR1 1EA. Jones / Brother punchcard machine owners should reverse the card before knitting. For electronic and all other models, we suggest you substitute a similar lace pattern specially recommended for your machine.

RIGHT FRONT

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push Ns 4 to 61 [4 to 64, 4 to 68, 4 to 71, 4 to 74, 4 to 77, 4 to 80, 4 to 83] inclusive at right of centre 0 to WP. 58 [61, 65, 68, 71, 74, 77, 80] Ns. Work as for back from * to *.

MACHINES WITHOUT RIBBER

Push Ns 4 to 62 [4 to 65, 4 to 68, 4 to 71, 4 to 74, 4 to 77, 4 to 80, 4 to 83] inclusive at right of centre 0 to WP. 59 [62, 65, 68, 71, 74, 77, 80] Ns. Work as for back from * to *.

1ST AND 2ND SIZES

Dec 1 st at right edge.

ALL SIZES

58 [61, 65, 68, 71, 74, 77, 80] sts.

ALL MACHINES

** Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 182 rows. RC shows 184.

SHAPE FRONT EDGE

Dec 1 st at left edge of next and every foll 6th row until 50 [53, 57, 60, 63, 66, 69, 72] sts rem. K 3 rows. Place marker at right edge. Cont to dec at front edge on every 6th row from previous dec until 36 [39, 42, 45, 47, 50, 52, 55] sts rem. K 21 [21, 19, 19, 19, 19, 17, 17] rows. Cast off **.

LEFT FRONT

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push Ns 4 to 61 [4 to 64, 4 to 68, 4 to 71, 4 to 74, 4 to 77, 4 to 80, 4 to 83] inclusive at left of centre 0 to WP. 58 [61, 65, 68, 71, 74, 77, 80] Ns. Work as for back from * to *.

MACHINES WITHOUT RIBBER

Push Ns 4 to 62 [4 to 65, 4 to 68, 4 to 71, 4 to 74, 4 to 77, 4 to 80, 4 to 83] inclusive at left of centre 0 to WP. 59 [62, 65, 68, 71, 74, 77, 80] Ns. Work as for back from * to *.

1ST AND 2ND SIZES

Dec 1 st at left edge.

ALL SIZES

58 [61, 65, 68, 71, 74, 77, 80] sts.

ALL MACHINES

Work as for right front from ** to ** reversing shapings by reading left for right and right for left.

SLEEVES

Push 55 [55, 58, 58, 60, 60, 63, 63] Ns at left and right of centre 0 to WP. 110 [110, 116, 116, 120, 120, 126, 126] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Insert card and lock on first row. Set RC at 000. Using MY, K 2 rows. Release card and cont in lace patt. K 187 [187, 187, 187, 192, 192, 192, 192] rows. RC shows 189 [189, 189, 189, 194, 194, 194, 194] and work measures 41 [41, 41, 41, 42, 42, 42, 42] cm, 16 [16, 16, 16, 16½, 16½, 16½, 16½] in. Cast off.

CUFFS

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using WY, cast on 56 [56, 59, 59, 62, 62, 65, 65] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

Push 56 [56, 59, 59, 62, 62, 65, 65] Ns to WP. Work as for back from * to *.

ALL MACHINES

With P side facing, replace 110 [110, 116, 116, 120, 120, 126, 126] sts from lower edge of sleeve on to Ns gathering evenly. Using MT, K 1 row. Cast off.

FRONT BORDER

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for

1×1 rib. Using MY, cast on 19 sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−4/MT−4, K 8 rows. * Make a buttonhole over centre 3 sts. K 26 rows; rep from * 5 times more. Make another buttonhole over same sts as before. Knit until strip, when slightly stretched, fits up right front edge across back neck and down left front edge. Cast off.

MACHINES WITHOUT RIBBER

Using MY, cast on 17 sts by hand. Set RC at 000. Using MT−1, K 8 rows. * Counting from both edges, make buttonholes over sts 4, 5 and 6. K 26 rows; rep from * 5 times more. Make buttonholes over same sts as before. Knit until strip, when slightly stretched, fits up right front edge, across back neck and down left front edge. Cast off.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join shoulder seams. Set in sleeves between markers. Join side and sleeve seams.

MACHINES WITH RIBBER

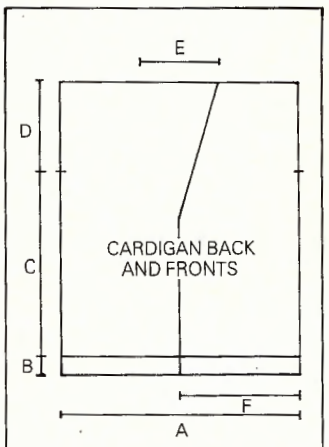
Sew front border into position.

MACHINES WITHOUT RIBBER

Fold front band in half lengthways and sew in position. Neaten open ends.

ALL MACHINES

Finish buttonholes. Sew on buttons.



A = 48.5 [51, 54, 56.5, 59, 61.5, 64, 66] cm
B = 5 cm
C = 50 cm
D = 22 [22, 23, 23, 24, 24, 25, 25] cm
E = 20 [20, 20.5, 20.5, 21.5, 21.5, 22, 22] cm
F = 23 [24.25, 25.75, 27, 28.25, 29.5, 30.75, 31.75] cm
G = 44 [44, 46, 46, 48, 48, 50, 50] cm
H = 41 [41, 41, 41, 42, 42, 42, 42] cm

pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join left shoulder and neckband seam. Join side and sleeve seams. Set in sleeves.

MACHINES WITH RIBBER

Fold neckband in half to inside and catch down.

SKIRT
RIGHT BACK

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MC, cast on 73 [77, 81, 85] sts in 1×1 rib. * K 3 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−5/MT−5, K 16 rows. Transfer sts for st st *.

MACHINES WITHOUT RIBBER

Push 74 [77, 80, 86] Ns to WP. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT−2 and MC, K 33 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed *.

1ST AND 4TH SIZES

Dec 1 st.

3RD SIZE

Inc 1 st.

ALL SIZES

73 [77, 81, 85] sts.

ALL MACHINES

Set RC at 000. Using MT−1, K 60 rows. K 1 row extra for left back.

SHAPE TOP OF BACK SPLIT

Cast on 8 sts at beg of next row. 81 [85, 89, 93] sts. K 193 [199, 203, 209] rows. Work measures 67.5 [69, 70, 71.5] cm, 26½ [27¼, 27½, 28¼] in. *Adjust length at this stage if desired.*

WAISTBAND

** Using MT+2, K 1 row. Using MT−2, K 9 rows. Using MT+2, K 1 row. Using MT−2, K 9 rows. Make a hem by placing loops of first row on to corresponding Ns. Using MT+2, K 1 row. Cast off **

LEFT BACK

Work as for right back reversing shapings by noting alteration in number of rows worked.

FRONT

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MC, cast on 160 [168, 176, 184] sts in 1×1 rib. Work as for right back from * to *.

MACHINES WITHOUT RIBBER

Push 161 [167, 176, 185] Ns to WP. Work as for right back from * to *.

1ST AND 4TH SIZES

Dec 1 st.

2ND SIZE

Inc 1 st.

ALL SIZES

160 [168, 176, 184] sts.

ALL MACHINES

Set RC at 000. Using MT−1, K 254 [260, 264, 270] rows. *Adjust length as on right back if desired.*

WAISTBAND

Work as for right back from ** to **

BACK SPLIT TRIM (2)

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MC, cast on 50 sts in 1×1 rib. Work as for right back from * to *. Using MT−1, K 1 row.

MACHINES WITHOUT RIBBER

Push 50 Ns to WP. Work as for right back from * to *. Using MT−1, K 1 row.

ALL MACHINES

With P side facing, pick up sts along side of back split and place on to Ns. Using MT+2, K 1 row. Cast off.

PRESSING

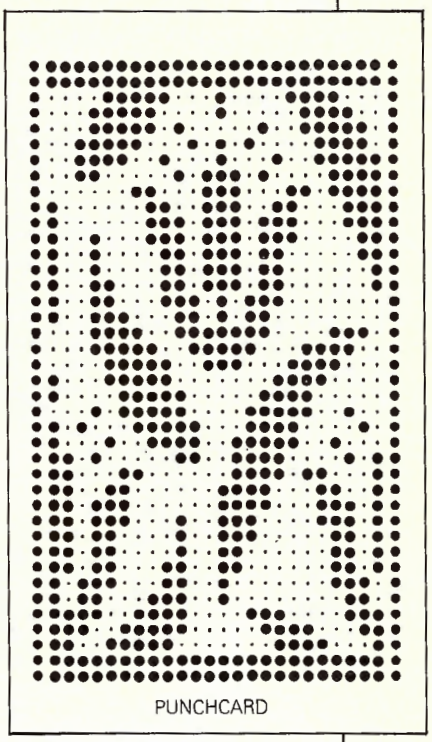
With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

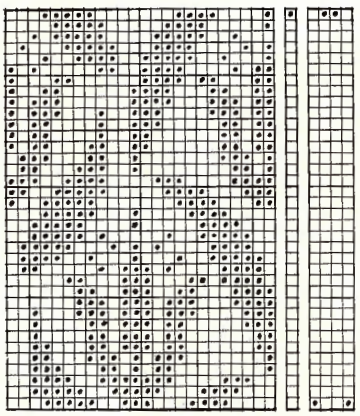
Join centre back and side seams, leaving an opening in waistband. Overlap back split trims and join to back split shapings. Insert elastic and join ends. Close opening.

MACHINES WITHOUT RIBBER

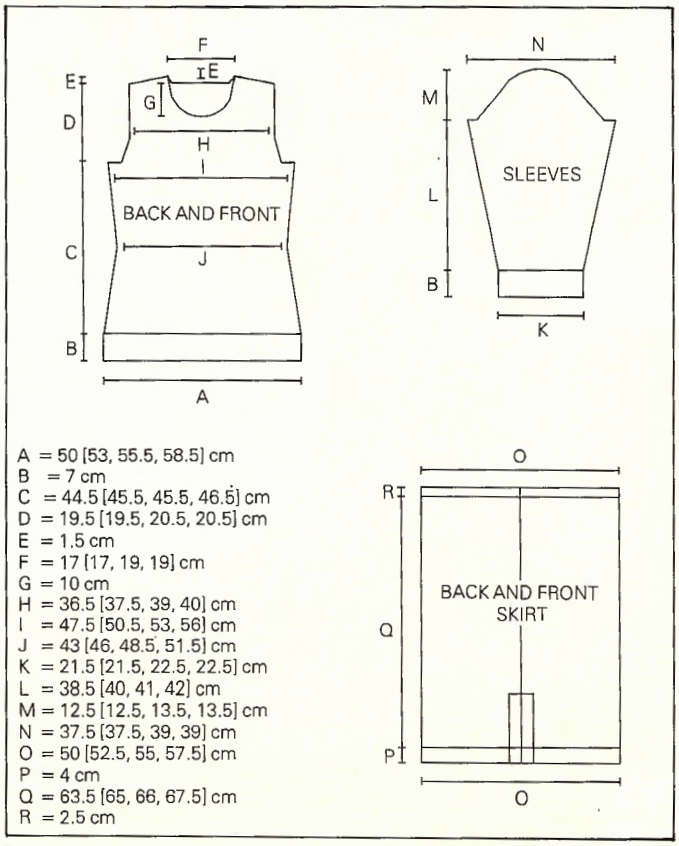
Neaten ends of bands.



PUNCHCARD



ELECTRONIC CARD



A = 50 [53, 55.5, 58.5] cm
B = 7 cm
C = 44.5 [45.5, 45.5, 46.5] cm
D = 19.5 [19.5, 20.5, 20.5] cm
E = 1.5 cm
F = 17 [17, 19, 19] cm
G = 10 cm
H = 36.5 [37.5, 39, 40] cm
I = 47.5 [50.5, 53, 56] cm
J = 43 [46, 48.5, 51.5] cm
K = 21.5 [21.5, 22.5, 22.5] cm
L = 38.5 [40, 41, 42] cm
M = 12.5 [12.5, 13.5, 13.5] cm
N = 37.5 [37.5, 39, 39] cm
O = 50 [52.5, 55, 57.5] cm
P = 4 cm
Q = 63.5 [65, 66, 67.5] cm
R = 2.5 cm

9A SLEEVELESS LACE TOP

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with lace carriage and with or without a ribber.

MATERIALS

Studley Suki and Suki Smooth. (See knitting notes below).
1 [1, 1, 1, 1, 1, 1, 1] × 350g cone Suki in Black or Camel (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 350g cone Suki or Suki Smooth in Black or Camel (MY).

GARMENT WEIGHT

Finished garment in second size weighs 165g.

The fibre content of Suki is 98% Acrylic, 4% Nylon: Suki Smooth is 100% Acrylic. These yarns are obtainable by mail from B.S.K. Limited, Bedford. Please turn to page 52 for details of this special offer and the order coupon.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 92 [97, 102, 107, 112, 117, 122, 127] cm, 36¼ [38¼, 40¼, 42¼, 44, 46, 48, 50] in.
Length to shoulder 54 [54, 55, 55, 56, 56, 57, 57] cm, 21¼ [21¼, 21¾, 21¾, 22, 22, 22½, 22½] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

TOP: 24 stitches and 46 rows to 10 cm, 4 in measured over lace pattern using one strand Suki with one strand Suki Smooth (tension dial setting approximately 7). *OR* two strands Suki (tension dial setting approximately 6).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Two strands of yarn are used tog throughout. The garment can be knitted either all in Suki or in Suki and Suki Smooth. For a lightweight fluid effect use one strand Suki with one strand Suki Smooth. For a crisper, heavier fabric, use two strands of Suki. The same tension can be achieved with each yarn combination. Punch card as shown on page 46 before starting to knit. We used Toyota card 16 for Toyota KS901 machines for this pattern and reproduce it courtesy of Toyota. For further information about their cards and machines, please write to Aisin Company (UK) Limited, 34 High Street, Bromley, Kent BR1 1EA. Jones+Brother punchcard machine owners should reverse the card before knitting. For other models, we suggest you substitute a similar lace pattern specially recommended for your machine.

BACK AND FRONT ALIKE

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push 56 [59, 62, 65, 68, 71, 74, 77] Ns at left and 57 [60, 63, 66, 69, 72, 75, 78] Ns at right of centre 0 to WP. 113 [119, 125, 131, 137, 143, 149, 155] Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−4/MT−4, K 22 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

Push 56 [59, 62, 65, 68, 71, 74, 77] Ns at left and 57 [60, 63, 66, 69, 72, 75, 78] Ns at right of centre 0 to WP. 113 [119, 125, 131, 137, 143, 149, 155] Ns. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT−2 and MY, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed.

ALL MACHINES

Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 132 rows. RC shows 134 and work measures 33 cm, 13 in.

SHAPE ARMHOLES

Cast off 4 sts at beg of next 2 rows. Dec 1 st at each end of every row until 97 [99, 105, 107, 113, 115, 121, 123] sts rem, then on every foll alt row until 77 [81, 85, 89, 93, 97, 101, 105] sts rem. K 4 [4, 6, 6, 10, 10, 12, 12] rows.

SHAPE NECK

Note patt row on card. Using a length of MY, cast off centre 13 [13, 15, 15, 17, 17, 19, 19] sts. Using nylon cord, K 32 [34, 35, 37, 38, 40, 41, 43] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. Dec 1 st at neck edge on every row until 24 [26, 27, 29, 30, 32, 33, 35] sts rem, then on every foll alt row until 14 [16, 17, 19, 20, 22, 23, 25] sts rem. K 44 rows. Cast off. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to right without knitting. Release card and cont in lace patt. Finish to correspond with first side, reversing shapings.

BACK AND FRONT NECKBANDS ALIKE

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 125 [125, 128, 128, 131, 131, 134, 134] sts in 1×1 rib. * K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−4/MT−4, K 21 rows. Transfer sts for st st, K 1 row. Using WY, K a few rows and release from machine *.

MACHINES WITHOUT RIBBER

Push 125 [125, 128, 128, 131, 131, 134, 134] Ns to WP. With K side facing, pick up 125 [125, 128, 128, 131, 131, 134, 134] sts around neck edge and place on to Ns. * Set RC at 000. Using MT and MY, K 1 row. Transfer every 3rd st on to adjacent N and push empty Ns to NWP. Using MT−1, K 5 rows. Using MT−2, K 11 rows. Using MT−1, K 4 rows. Push Ns from NWP to WP and place loop from row below adjacent st on to empty Ns. Using MT, K 2 rows. Using WY, K a few rows and release from machine *.

ARMHOLE BANDS

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using WY, cast on 149 [152, 158, 161, 167, 170, 176, 179] sts in 1×1 rib. Work as for neckband from * to *.

MACHINES WITHOUT RIBBER

Join shoulder and neckband seams. Push 149 [152, 158, 161, 167, 170, 176, 179] Ns to WP. With K side facing, pick up 149 [152, 158, 161, 167, 170, 176, 179] sts around armhole edge and place on to Ns. Work as for neckband from * to *.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

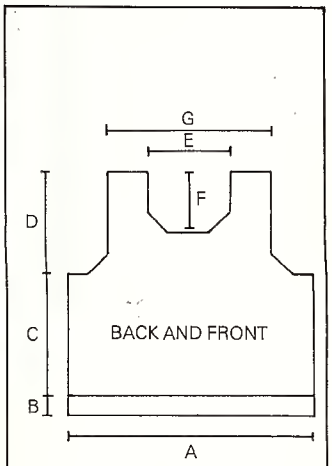
MAKING UP

MACHINES WITH RIBBER

Join shoulder and neckband seams. Pin neckband and armhole bands into position. Unravelling WY as required, backstitch through open loops of last row worked in MY. Join side and armhole band seams. Fold bands in half to wrong side and slip hem loosely in position.

MACHINES WITHOUT RIBBER

Join side and armhole band seams. Fold neckband and armhole bands in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in MY.



A = 47 [49.5, 52, 54.5, 57, 59.5, 62, 64.5] cm
B = 4 cm
C = 28 cm
D = 21 [21, 22, 22, 23, 23, 24, 24] cm
E = 20 [20, 21, 21, 22, 22, 22.5, 22.5] cm
F = 15 cm
G = 32 [33.5, 35, 37, 38.5, 40, 42, 43.5] cm

Hat, jewellery, NEXT. Shoes, DOLCIS.

9B PLAIN FLARED SKIRT

PATTERN RATING

* Easy to knit.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with lace carriage and with or without a ribber. We used a Brother 881.

MATERIALS

Studley Suki and Suki Smooth. (See knitting notes below).
1 [1, 1, 1, 1, 1, 1, 1] × 350g cone in Suki in Black or Camel (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 350g cone in Suki *or* Suki Smooth in Black or Camel (MY).
Elastic to fit waist.
3 mm crochet hook.
GARMENT WEIGHT
Finished garment in second size weighs 415g.

The fibre content of Suki is 96% Acrylic, 4% Nylon: Suki Smooth is 100% Acrylic. These yarns are obtainable by mail from: B.S.K. Limited, Bedford. Please turn to page 52 for details of this special offer and the order coupon.

MEASUREMENTS

To fit waist 61 [66, 71, 76, 82, 87, 92, 97] cm, 24 [26, 28, 30, 32, 34, 36, 38] in.
Actual size 67.5 [72.5, 77.5, 82.5, 87.5, 92.5, 97.5, 102.5] cm, 26½ [28½, 30½, 32½, 34½, 36½, 38½, 40½] in.
Knitted length to waistband 64 cm, 25¼ in, to drop to 71 cm, 28 in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

28 stitches and 40 rows to 10 cm, 4 in measured over stocking stitch using one strand Suki with one strand Suki Smooth (tension dial setting approximately 7). *OR* two strands Suki (tension dial setting approximately 6).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Two strands of yarn are used tog throughout. The garment can be knitted either all in Suki or in Suki and Suki Smooth. For a lightweight fluid effect use one strand Suki with one strand Suki Smooth. For a crisper, heavier fabric, use two strands of Suki. The same tension can be achieved with each yarn combination. When shaping in HP, always take yarn round first inside N in HP to prevent a hole forming.

TO KNIT

Push 196 Ns to WP. Using MT and WY, cast on and K a few rows, ending with carriage at right. Set RC at 000. Using MY, K 2 rows. * Push 22 Ns at left to HP, K 2 rows. Push 11 Ns at left to HP on next and foll 13 alt rows, K 1 row **. Push Ns from HP to UWP, K 10 rows *, rep from * to * 25 [27, 29, 31, 33, 35, 37, 39] times more, then from * to ** once. Push Ns from HP to UWP, K 7 rows. Using WY, K a few rows and release from machine.

PRESSING

With wrong side facing, pin out piece to measurements given. Press carefully following instructions on cone band.

MAKING UP

Graft seam. Turn in 3 cm at waist edge and slip hem on the inside, leaving a small opening. Insert elastic and join ends securely. Close opening. Work one row of double crochet and one row of crab st (double crochet worked from left to right) around lower edge. Alternatively, work a knitted edging around lower edge as follows:- With carriage at right, P side facing and using treble transfer tool, start at seam and pick up 3 sts from lower edge and place on to Ns. Using MT−1 and MY, K 6 rows. * Working from right to left, pick up next 3 sts

52▶

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Spring yarn SUKI at these special prices

Take advantage of this great chance to make your spring suit or separates in Suki yarn at a bargain price. The lace cardigans, sleeveless top and flared, stocking stitch, skirt in patterns 8, 9 and 10 (photographed on pages 48, 49, 53 and 57), can all be made in a double strand of Suki.

The two-cone kit at only £7.95 will make any of these garments but for a real bargain, choose the five-cone knit and knit cardigan, top and skirt for only £16.95.

The kits are available from B.S.K. of Bedford and, as we go to press, the colours available are:-
01 White, 02 Peach, 04 Pink, 07 Camel, 08 Lilac, 10 Turquoise, 11 Rose Pink, 12 Coral, 13 Jade, 14 Royal, 15 Donkey, 17 Red, 18 Navy, 19 Cream and 20 Black.

The offer only applies to Suki yarn. For details of colours available and prices for Suki Smooth, please contact B.S.K. who have limited supplies.

Please complete the coupon below in block letters and give both colour number and name for your kit choice(s). Send it off without delay to BSK Ltd., Murdock Road, Manton Industrial Estate, Bedford MK41 7LE for prompt despatch.

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2nd choice				
1st choice				
2nd choice				
1st choice				
2nd choice				

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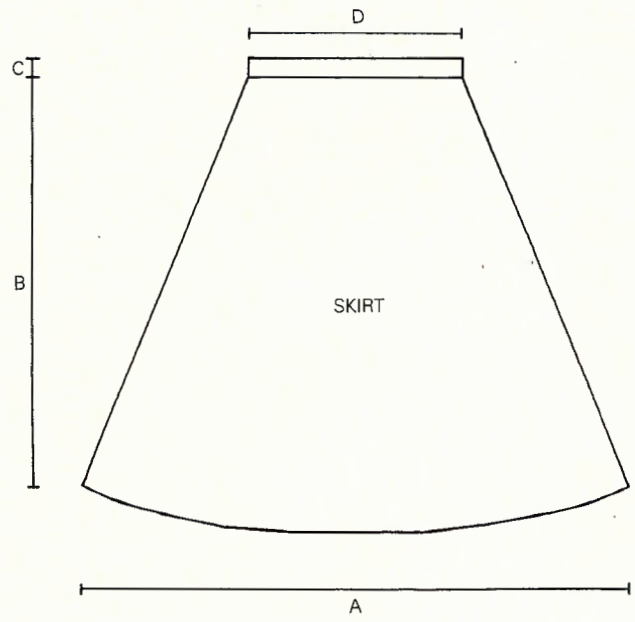
from lower edge and place on to same 3 Ns; K 6 rows. Rep from * around lower edge, ending by placing first 3 sts back on to machine, K 1 row and cast off. Press edging.



A = 270 [290, 310, 330, 350, 370, 390, 410] cm *
B = 64 cm [to drop to 71 cm]
C = 3 cm
D = 67.5 [72.5, 77.5, 82.5, 87.5, 92.5, 97.5, 102.5] cm *
* = Total Circumference

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Scarf, bangles, BHS. Shoes, DOLCIS.

9

MASTERCLASS

TULIP TIME

It's here again! Always wonderful, always full of colour and marvellous to look at, particularly for all of us who knit or design for knitting this year, as the bold and beautiful explosion of colour expresses so well the current feeling for spicy hues and exuberant designs on patterned fabrics.

Mary Dowse

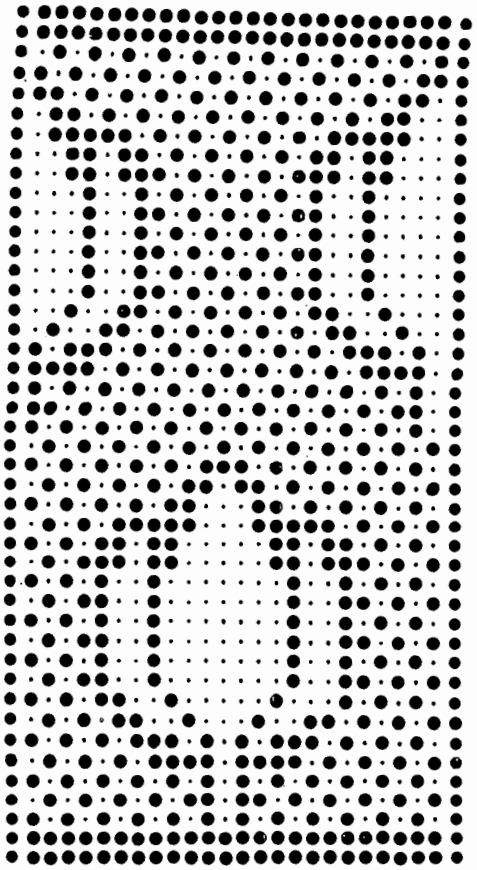
May flowering tulips are so vibrant and so glowing that they lighten the dullest day and in the sunshine are almost overwhelming. Not the shy, delicate and fragile flowers of the early Spring, but a riot of brilliance and colour.

If you're lucky you might see the spectacular bulbfields of Holland, or nearer home, the fields round Spalding where tulips spring up not only in the sheer colour of the bulbfields, but in scattered pockets all over the fens. Even if you can't travel, they are in every park and garden all over the country.

The colours are so right for this summer; gorgeous golden yellows, luscious lemon, flaming reds, glowing pinks, icy whites, brilliant bronzes and wines.

Lovely for sweaters and cardigans, absolutely right for fashion now – and just plain beautiful at any time.

The shapes are marvellous too. Tulip shaped skirts look wonderful with little tops or simple sweaters and there are a lot of draped skirts about. Tulip shaped sleeves add style and shape, or try tulip shaped petals to decorate shoulders. All these are well within the scope of the average



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knitter. Tulip shaped skirts or pants are surprisingly becoming and camouflaging and stunning for holiday wear. In fact, I simply cannot resist making a pattern for one by the time you read this.

However, apart from any special pattern, how about this one?

Most of you have a pattern for a sideways knitted flared skirt. Turn it upside down. Make sure that the "waist", now the hem, is wide enough to walk in (if not make the whole thing wider). "Gather" the top fullness on to a small yoke or waistband and there you are, your tulip shaped skirt. A very flared pattern in fine yarn makes a lovely long skirt with lots of drape, or use a narrower, less flared skirt for gentle fullness, long or really short.

The shape of the flowers has been used for patterned fabrics for thousands of years, so I am following a time-honoured tradition in designing a punchcard for tulips. Not necessarily brash and brilliant though great fun in two bright colours, it can also be discreet and subtle or lacy and delicate. I have already used it for a deceptively fragile-looking punch lace fabric in fine synthetic yarns for summer wear, or loaded with lurex for a glistening metallic lace for evening. It also makes a beautiful Fair Isle fabric in two dark colours for a "paisley" look. Try it in dark wine and black to make the "Black Tulip" beloved by Alexandre Dumas. Alternatively, try it in black with white tulips, which you can colour as brightly as you like with fabric paints or pastels.

Iris Bishop has both these and others are also available in art shops – and yes, they do wash if you follow the instructions! This is a great way to add colour if your time is limited or, dare I say it, if you are a lazy knitter. I'm all for short cuts if they really work and this does.

Talking of short cuts, I do take one when marking punchcards or milium sheets for this type of pattern. It is designed with two rows alike throughout, but as my machine has (in common with many) a switch to press to work two rows alike automatically, why not use it? This tulip card is designed in this way. One row only is cut or marked but knit two rows alike throughout. This saves time, cards and effort, particularly for those of you who don't like marking out patterns and I do seem to meet a great many knitters who simply hate it.

Do look at tulips again now. Knit them now if you can but don't just stop there. Knit them at other times of the year as well – you may be out among them gardening just now. They should be at their best but if they're late this year, take heart, there isn't long to wait.

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10 LACE CARDIGAN

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with lace carriage and with or without a ribber.

MATERIALS

Studley Suki and Suki Smooth (see knitting notes below)
1 [1, 1, 1, 1, 1, 1, 1] × 350g cone of Suki in Peach (MY)
1 [1, 1, 1, 1, 1, 1, 1] × 350g cone Suki *OR* Suki Smooth in Peach (MY).
6 buttons.

GARMENT WEIGHT

Finished garment in second size weighs 405g.

The fibre content of this yarn is 96% Acrylic, 4% Nylon. This yarn is obtainable by mail order from B.S.K. Limited, Manton Industrial Estate, Murdock Road, Bedford MK41 7LE. See special offer coupon on p.52.

YARN THICKNESS

One strand of Suki knitted together with one strand of Suki Smooth is fine weight and knits as two ply.
Two strands of Suki knitted together are medium fine weight and knit as three ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 96 [101, 106, 111, 116, 121, 126, 131] cm, 37¾ [39¾, 41¾, 43¾, 45¾, 47¾, 49½, 51½] in.
Length to shoulder 57 [57, 58, 58, 59, 59, 60, 60] cm, 22½ [22½, 22¾, 22¾, 23¼, 23¼, 23½, 23½] in.
Sleeve seam 46 [46, 46, 46, 47, 47, 47, 47] cm, 18 [18, 18, 18, 18½, 18½, 18½, 18½] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

25 stitches and 46 rows to 10 cm, 4 in measured over lace pattern using one strand of Suki and one strand of Suki Smooth together (tension dial setting approximately 7) *OR* two strands of Suki (tension dial setting approximately 6).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Two strands of yarn are used together throughout. The garment can be knitted either all in Suki or in Suki and Suki Smooth. For a lightweight fluid effect use one strand Suki with one strand Suki Smooth. For a crisper, heavier fabric, use two strands of Suki. The same tension can be achieved with each yarn combination. Punch card, as shown on page 46, before starting to knit. We used Toyota card 16 for Toyota KS901 machines for this pattern and reproduce it courtesy of Toyota. For further information about Toyota cards and machines, please write to Aisin Company (UK) Limited, 34 High Street, Bromley, Kent BR1 1EA. Jones+Brother punchcard owners should reverse the card before knitting. For other models, we suggest you substitute a similar lace pattern specially recommended for your machine.

BACK

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push 61 [64, 68, 71, 74, 77, 80, 83] Ns at left and right of centre 0 to WP. 122 [128, 136, 142, 148, 154, 160, 166] Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st *.

MACHINES WITHOUT RIBBER

Push 61 [64, 67, 70, 73, 76, 79, 82] Ns at left and right of centre 0 to WP. 122 [128, 134, 140, 146, 152, 158, 164] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *.

3RD, 4TH, 5TH, 6TH, 7TH AND 8TH SIZES

Inc 1 st at each end.

ALL SIZES

122 [128, 136, 142, 148, 154, 160, 166] sts.

ALL MACHINES

Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 136 rows. RC shows 138 and work measures 35 cm, 13¾ in. Place marker at each end. K 102 [102, 106, 106, 112, 112, 116, 116] rows. RC shows 240 [240, 244, 244, 250, 250, 254, 254] and work measures 57 [57, 58, 58, 59, 59, 60, 60] cm, 22½ [22½, 22¾, 22¾, 23¼, 23¼, 23½, 23½] in. Place marker between sts 25 and 26 [25 and 26, 26 and 27, 26 and 27, 27 and 28, 27 and 28, 28 and 29, 28 and 29] at left and right of centre 0. Cast off.

RIGHT FRONT

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push Ns 4 to 61 [4 to 64, 4 to 68, 4 to 71, 4 to 74, 4 to 77, 4 to 80, 4 to 83] inclusive at right of centre 0 to WP. 58 [61, 65, 68, 71, 74, 77, 80] Ns. Work as for back from * to *.

MACHINES WITHOUT RIBBER

Push Ns 4 to 62 [4 to 65, 4 to 68, 4 to 71, 4 to 74, 4 to 77, 4 to 80, 4 to 83] inclusive at right of centre 0 to WP. 59 [62, 65, 68, 71, 74, 77, 80] Ns. Work as for back from * to *.

1ST AND 2ND SIZES

Dec 1 st at right edge.

ALL SIZES

58 [61, 65, 68, 71, 74, 77, 80] sts.

ALL MACHINES

Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 90 rows. RC shows 92.

SHAPE FRONT EDGE

Dec 1 st at left edge of next and every foll 6th row until 50 [53, 57, 60, 63, 66, 69, 72] sts rem. K 3 rows. Place marker at right edge. Cont to dec at front edge on every 6th row from previous dec until 36 [39, 42, 45, 47, 50, 52, 55] sts rem. K 21 [21, 19, 19, 19, 19, 17, 17] rows. Cast off **.

LEFT FRONT

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push Ns 4 to 61 [4 to 64, 4 to 68, 4 to 71, 4 to 74, 4 to 77, 4 to 80, 4 to 83] inclusive at left of centre 0 to WP. 58 [61, 65, 68, 71, 74, 77, 80] Ns. Work as for back from * to *.

MACHINES WITHOUT RIBBER

Push Ns 4 to 62 [4 to 65, 4 to 68, 4 to 71, 4 to 74, 4 to 77, 4 to 80, 4 to 83] inclusive at left of centre 0 to WP. 59 [62, 65, 68, 71, 74, 77, 80] Ns. Work as for back from * to *.

1ST AND 2ND SIZES

Dec 1 st at left edge.

ALL SIZES

58 [61, 65, 68, 71, 74, 77, 80] sts.

ALL MACHINES

Work as for right front from ** to ** reversing shapings by reading left for right and right for left.

SLEEVES

Push 55 [55, 58, 58, 60, 60, 63, 63] Ns at left and right of centre 0 to WP. 110 [110, 116, 116, 120, 120, 126, 126] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Insert card and lock on first row. Set RC at 000. Using MY, K 2 rows. Release card and cont in lace patt. K 187 [187, 187, 187, 192, 192, 192, 192] rows. RC shows 189 [189, 189, 189, 194, 194, 194, 194] and work measures 41 [41, 41, 41, 42, 42, 42, 42] cm, 16 [16, 16, 16, 16½, 16½, 16½, 16½] in. Cast off.

CUFFS

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 56 [56, 59, 59, 62, 62, 65, 65] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

Push 56 [56, 59, 59, 62, 62, 65, 65] Ns to WP. Work as for back from * to *.

ALL MACHINES

With P side facing, replace 110 [110, 116, 116, 120, 120, 126, 126] sts from lower edge of sleeve on to Ns gathering evenly. Using MT, K 1 row. Cast off.

FRONT BORDER

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 19 sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 6 rows. * Make a buttonhole over centre 3 sts. K 20 rows. Rep from * 4 times more. Make another buttonhole over same sts as before. Knit until strip, when slightly stretched, fits up right

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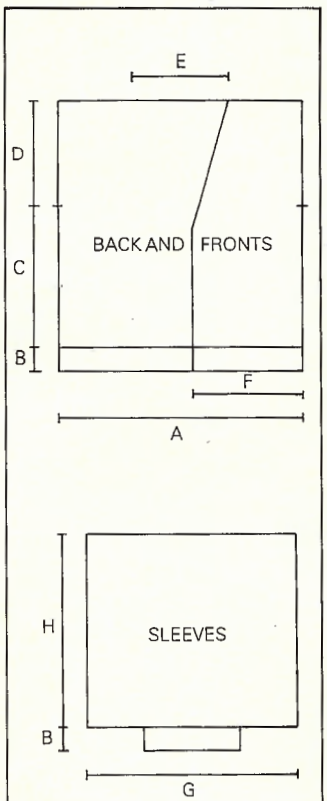
front edge, across back neck and down left front edge. Cast off.
MACHINES WITHOUT RIBBER
Using MY, cast on 17 sts by hand. Set RC at 000. Using MT–1, K 6 rows. * Counting from both edges, make buttonholes over sts 4, 5 and 6. K 20 rows; rep from * 4 times more. Make buttonoles over same sts as before. Knit until strip when slightly stretched, fits up right front edge, across back neck and down left front. Cast off.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join shoulder seams. Set in sleeves between markers. Join side and sleeve seams.
MACHINES WITH RIBBER
Sew front border into position.
MACHINES WITHOUT RIBBER
Fold front border in half lengthways and sew in position. Neaten open ends.
ALL MACHINES
Finish buttonholes. Sew on buttons.



A = 48.5 [51, 54, 56.5, 59, 61.5, 64, 66] cm
B = 5 cm
C = 30 cm
D = 22 [22, 23, 23, 24, 24, 25, 25] cm
E = 20 [20, 20.5, 20.5, 21.5, 21.5, 22, 22] cm
F = 23 [24.25, 25.75, 27, 28.25, 29.5, 30.75, 31.75] cm
G = 44 [44, 46, 46, 48, 48, 50, 50] cm
H = 41 [41, 41, 41, 42, 42, 42, 42] cm

DEAR ANNE...

Don't keep your ideas, suggestions, experiences, criticism or praise to yourself. Share your thoughts with other readers by writing to Anne at Machine Knitting Monthly, 3 Bridge Avenue, Maidenhead, Berkshire SL16 1RR. We pay £5 for every letter published plus a year's subscription to the magazine for our Star Letter.

Dear Anne
I thought I'd drop you a line with a couple of tips. I haven't seen them published before and your readers might like to make a note of them.

Most knitters who have a Jones+Brother Garter Carriage know of the need to have a sponge bar (needle retaining bar) in first class condition to avoid dropping stitches. This bar can deteriorate with age – even if the machine is not used – and this can often be the cause of looping at the edges of the knitting and dropped stitches. (I have known of a very bad one which prevented the carriage from moving when the ribber was in use!) To help prevent knitting problems, it's always a good idea to check the bar at regular intervals!

Some knitters also have trouble with loose ribs on chunky machines. Those who are fortunate enough to have a Jones+Brother with the slide lever (which is normally only used on the first row) wil find that welts, cuffs and neckbands knit beautifully if the slide lever is left on II all the time.

Another small point worth a mention is to avoid some of the strain on the shoulders and back, and to get a better view of the machine when using transfer tools and so on, sit as high as possible. The arm is then in a more comfortable position. An office chair with adjustable height is probably the best but failing that, use cushions or blocks under the chair legs.

Best wishes to all at MKM from the club and myself.
Yours sincerely
Reg Osborne
London NW9

Thank you very much for your tips, Reg. I'm sure they'll be a great help to many readers. As many of his ardent followers know, Reg is a 'leading light' at several knitting clubs in and around London. We've details about the South Oxhey club, the Acton club, the Bushey Club and the Greenford Club. If you'd like further details, we'll be pleased to pass on the information.
Ed.

Dear Anne
Two of my grandchildren are learning Karate. My daughter saw Iris Bishop's design of Karate men in the magazine and said she would like me to knit a jumper for each of them for Christmas.

If I had had an electronic, or even a 24 stitch repeat machine, it wouldn't have been a problem. I only had an 858, 12 stitch repeat machine!

I wanted to please them so I had a go. I only knitted one row of men across the chest, but it was a long, tedious job pushing the needles in place by hand. I also wrote *SHOTOKAN* along the bottom (that's the sort of Karate they do!). As they had just got their orange belts, I Swiss Darned the Karate men's belts in orange.

I'd recently purchased a ribber for my machine, so I used *Simulknit*. That was new to me as well, so what with that and pushing up the needles by hand, I got myself frustrated and angry. What I wouldn't have liked to do to Iris Bishop and my machine. I had to pull the front of one jumper out three times – the third time I just cried!

One jumper was knitted in black and white, the other was knitted in white with just black and white across the chest. Yesterday, my grandchildren came to see me wearing their jumpers. They were so pleased with them, it made all the effort worth while! So, thank you Iris – not only for the Karate men but also for the fishes. I knitted that for my youngest grandson whose dad is a fisherman.
All the best
Mrs M Jackson
Plymouth

What a lovely story, Mrs Jackson. Thank you for sharing it with us.
Ed.

Dear Anne
I was very interested to read Diane Bennett's article about knitting lace. I purchased a Brother electronic machine in Canada from a lady called Gwen who runs a knitting shop on Vancouver Island. She gave me this tip.

Do not allow the knitting to hang in between the beds. Place covers over the ribber bed and then bring the knitting out and over the ribber. With the claw weights on and the fine bar in place under the needles, there should be no more dropped stitches.

I do enjoy reading the magazine. I'm a new machine knitter and started my knitting at night school!
Yours sincerely
Mrs J Bradshaw
Worthing, Sussex

STAR LETTER

Dear Anne
Your lady from Hull's problem with threading a Toyota ribber prompts me to put pen to paper. Having experienced the same thing and having suffered from 'Toyota Toes' as the result of weights and comb descending on them, I offer the following tip.

For the initial cast on, have both carriages at the left and tension dials set at 0/0. Thread the yarn between the main bed and ribber and pull to the left into the coupling. Attach the end of yarn to the rear clamp and move the carriages to the right to give the zig-zag row.

I find this never fails to catch the yarn properly for casting on or changing colour.

Further to the cast on technique described, insert the comb and weights. Loosen the thumb screw on the ribber/main bed coupler sufficiently to allow the rib carriage to be moved to the left and return to the right. Tighten the thumb screws. Knit one row to the left to restore the zig-zag then knit two or three rows of circular knitting. Set tension dials as required and knit the rib.

It's worth noting that when the work is removed from the machine, you should pull a loop on the right of the rib to pull the thread through the rib edge.

I hope this will be of some use to others. Many thanks for your 'Tinkering' notes and best wishes to you all.
Yours sincerely
Ms B Griffiths
Shepshed, Leicestershire

Thank you very much for passing on your tips, Ms Griffiths. Your letter is our Star Letter of the month and earns you £5 plus a year's subscription to the magazine.
Ed.

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11 LONG-LINE JACKET

PATTERN RATING

** Fairly easy for knitters with some experience

MACHINES

This pattern is suitable for standard gauge punchcard machines with or without a ribber.

MATERIALS

C.Y.S. Algarve 4-ply Perlé.
2 [2, 2, 2, 3, 3, 3, 3] × 500g cones in Aran (MY).
GARMENT WEIGHT
Finished garment in second size weighs 685g.

The fibre content of this yarn is 100% Acrylic. For further details about local or mail order stockists, please write to C.Y.S., 4 & 6, St. Mary's Gate, Rochdale, Lancs, OL16 1DZ.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 96 [101, 107, 112, 117, 122, 126, 131] cm, 37¾ [39¾, 42¼, 44, 46, 48, 49½, 51½] in.
Length to shoulder 77 [77, 78, 78, 79, 79, 80, 80] cm, 30¼ [30¼, 30¾, 30¾, 31, 31, 31½, 31½] in.
Sleeve seam 45 [45, 46, 46, 47, 47, 48, 48] cm, 17¾ [17¾, 18¼, 18¼, 18½, 18½, 19, 19] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

25 stitches and 60 rows to 10 cm, 4 in measured over tuck stitch pattern (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

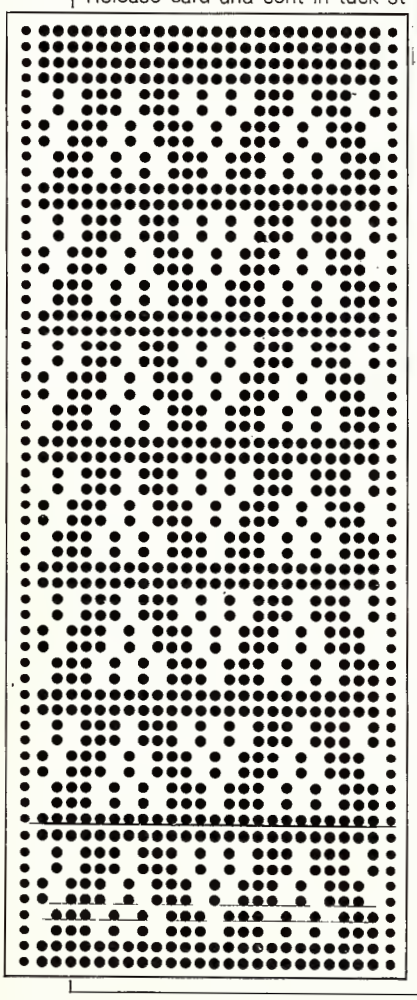
See page 4.

KNITTING NOTES

We used purl side of knitting as right side of garment. Punch card, as shown, before starting to knit. We used Toyota card 9020 for this pattern and reproduce it courtesy of Toyota. For further information about Toyota cards and machines, please write to Alsin Company (UK) Limited, 34 High Street, Bromley, Kent BR1 1EA.

BACK

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 61 [64, 68, 71, 74, 77, 80, 83] Ns at left and right of centre 0 to WP. 122 [128, 136, 142, 148, 154, 160, 166] Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 14 rows. Transfer sts for st st *.
MACHINES WITHOUT RIBBER
Push 61 [64, 67, 70, 73, 76, 79, 82] Ns at left and right of centre 0 to WP. 122 [128, 134, 140, 146, 152, 158, 164] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 27 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *.
3RD, 4TH, 5TH, 6TH, 7TH AND 8TH SIZES
Inc 1 st at each end.
ALL SIZES
122 [128, 136, 142, 148, 154, 160, 166] sts.
ALL MACHINES
Insert punchcard and lock on first row. Set carriage for patt. Set RC at 000. Using MT, K 1 row. Release card and cont in tuck st patt. K 305 rows. RC shows 306 and work measures 54 cm, 21¼ in. Place a marker at each end.
SHAPE ARMHOLES
Dec 1 st at each end of next and every foll alt row until 106 [112, 120, 126, 132, 138, 144, 150] sts rem, then on every foll 3rd row until 92 [98, 106, 112, 118, 124, 130, 136] sts rem. K 102 [102, 108, 108, 114, 114, 120, 120] rows. RC shows 444 [444, 450, 450, 456, 456, 462, 462] and work measures 77 [77, 78, 78, 79, 79, 80, 80] cm, 30¼ [30¼, 30¾, 30¾, 31, 31, 31½, 31½] in. Place a marker between sts 25 and 26 [25 and 26, 26 and 27, 26 and 27, 27 and 28, 27 and 28, 28 and 29, 28 and 29]. Cast off.



LEFT FRONT

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 20 Ns at left and 61 [64, 68, 71, 74, 77, 80, 83] Ns at right of centre 0 to WP. 81 [84, 88, 91, 94, 97, 100, 103] Ns. Work as for back from * to *.
MACHINES WITHOUT RIBBER
Push 20 Ns at left and 60 [63, 69, 72, 75, 78, 81, 84] Ns at right of centre 0 to WP. 80 [83, 89, 92, 95, 98, 101, 104] Ns. Work as for back from * to *.
1ST AND 2ND SIZES
Inc 1 st at right edge.
3RD, 4TH, 5TH, 6TH, 7TH AND 8TH SIZES
Dec 1 st at right edge.
ALL SIZES
81 [84, 88, 91, 94, 97, 100, 103] sts.
ALL MACHINES
** Insert punchcard and lock on first row. Set carriage for patt. Set RC at 000. Using MT, K 1 row. Release card and cont in tuck st patt. K 191 rows. RC shows 192 and work measures 35 cm, 13¾ in.
SHAPE FRONT EDGE
Dec 1 st at left edge of next and every foll 5th row until 66 [69, 73, 76, 79, 82, 85, 88] sts rem, then on every foll 6th row until 59 [62, 66, 69, 72, 75, 78, 81] sts rem. K 1 row. RC shows 306 and work measures 54 cm, 21¼ in. Place a marker at right edge.
SHAPE ARMHOLE
Cont to dec at front edge on every 6th row from previous dec and, *at the same time,* dec 1 st at right edge of next and every foll alt row until 49 [52, 56, 59, 62, 65, 68, 71] sts rem, then on every foll 3rd row until 38 [41, 45, 48, 51, 54, 57, 60] sts rem. Cont to dec at front edge only on every 6th row from previous dec until 21 [24, 27, 30, 32, 35, 37, 40] sts rem. K 1 row. RC shows 444 [444, 450, 450, 456, 456, 462, 462] and work measures 77 [77, 78, 78, 79, 79, 80, 80] cm, 30¼ [30¼, 30¾, 30¾, 31, 31, 31½, 31½] in. Cast off **.

RIGHT FRONT

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 61 [64, 68, 71, 74, 77, 80, 83] Ns at left and 20 Ns at right of centre 0 to WP. 81 [84, 88, 91, 94, 97, 100, 103] Ns. Work as for back from * to *.
MACHINES WITHOUT RIBBER
Push 60 [63, 69, 72, 75, 78, 81, 84] Ns at left and 20 Ns at right of centre 0 to WP. 80 [83, 89, 92, 95, 98, 101, 104] Ns. Work as for back from * to *.
1ST AND 2ND SIZES
Inc 1 st at left edge.
3RD, 4TH, 5TH, 6TH, 7TH AND 8TH SIZES
Dec 1 st at left edge.
ALL SIZES
81 [84, 88, 91, 94, 97, 100, 103] sts.
ALL MACHINES
Work as for left front from ** to ** reversing shapings by reading left for right and right for left.

SLEEVES

Push 38 [38, 40, 40, 43, 43, 45, 45] Ns at left and right of centre 0 to WP. 76 [76, 80, 80, 86, 86, 90, 90] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Insert punchcard and lock on first row. Set carriage for patt. Set RC at 000. Using MT, K 1 row. Release card and cont in tuck st patt. Shape sides by inc 1 st at each end of next and every foll 12th [12th, 12th, 12th, 13th, 13th, 13th, 13th] row until there are 116 [116, 120, 120, 126, 126, 130, 130] sts. K 10 [10, 16, 16, 3, 3, 9, 9] rows. RC shows 240 [240, 246, 246, 252, 252, 258, 258] and work measures 40 [40, 41, 41, 42, 42, 43, 43] cm, 15¾ [15¾, 16¼, 16¼, 16½, 16½, 17, 17] in. Place

TALKING TOYOTA

SMALL IS SENSIBLE

Once upon a time I began to teach myself to machine knit – using the Toyota K858 with ribber attachment. Those of you who have been taking the magazine for a long time will no doubt remember my early traumas but like most awful things they become a memory and the worst times faded. However, for those of you still struggling I am prepared to hark back to my first self-taught lessons and tell you how I survived.

Shelagh Hollingworth

LEARNING THE HARD WAY

When you buy a knitting machine the first thing to do is to read through the manual while you set up the machine and then to carry on taking in as much as you can of the operation. There was a lesson book as well as the manual with my machine, as there is no doubt with other machines, so I was able to set up the machine and go through the motions before actually embarking on the knitting.

One kind reader wrote to me after my first attempts and said that the best first lesson you can take with any machine is to try out as many of the movements as possible without any knitting on the needles so that you can see how the action takes place. Then, when you are knitting, if there is a sudden blank you may well remember how the action looked before and why it is different (and incorrect) now that you are knitting. That piece of advice has stuck in my mind and whenever I am going to use a technique that I haven't used for a long time I still work it out with the machine "dry" before I even make a tension sample. There's not much worse than being unable to begin a garment because you cannot make the tension sample. Yes, I can well recall howls of woe (mine) saying "How will I ever get this wretched thing made if I can't get past the tension stage?".

To return to the lesson book; I decided right from the start that without any outside help I would have to work my way through the tuition book, stage by stage. I would have preferred to make something right away but that would have taken too long, having to refer constantly to the manual, so I produced rather horrid little pieces of stocking stitch, some oblong shaped and others with decreasings and increasings on them. I know that I felt quite professional when I had a sample with fully fashioned shapings on it.

I could not believe how soon I came to the chapter on punchcards. Up until then I had thought punchcard patterning was extremely top rate work and only for advanced machine knitters. I sincerely believed that I would have to work in stocking stitch for weeks, possibly months before I could cope with anything like jacquard work, not realising that once you've learned how to operate the colour pattern technique, it's virtually the same as stocking stitch. After the colour work came tuck patterns and weaving – I was so entranced with making pattern swatches I nearly forgot that the object was to make articles.

In due course I decided to make the V neck sleeveless sweater that is given at the end of the tuition book because the details are clearly laid out and most of the techniques are used. It seemed to take me forever – and it looked that way too, with scruffy edges and too tight casting off. I cannot say it brought forth more howls of woe but it certainly gave rise to deep sighs. I thought I'd reached the crossroads. Should I carry on or just give up?

Machine knitting has something in common with driving, once you have mastered the basics you really have to practise. Because I wanted to get ahead as quickly as possible it seemed the only thing to do was to make things for children. If you make things for children as a business or a sideline you may already be aware that although they are small they are not as economical to make because they take almost as long as an adult's item with similar shapings. I realised that I could get in as much practise with the techniques that were holding me up by making little garments as large. Indeed, I ought to do those more since the increasing and decreasing, casting off and so on would come about faster if I made more articles with less straight stocking stitch in between.

TO SLOP OR NOT TO SLOP?

Yes, that was the question. What, you may well ask, is slop in the context of machine knitting? That's my private name for quickly made garments with dropped shoulders and therefore, no armhole shaping, no shoulder shaping, just a straight cast off and frequently a slashed neckline, oh yes, with straight full sleeves gathered into a cuff.

These can look really fetching, especially with lovely patterns but I believe the secret of a good sloppy sweater is that the knitter has had many years of making classic knitteds with all the trimming and is in true command of her machine.

For the little sweaters I intended to make I could not afford to slop. I had to use these items to try out and practise all the things that I found either difficult or slow. Not boring, however, since I think the boring bits of machine knitting are soon accomplished, thank goodness and they are the straight bits.

I began with the raglan sleeved sweaters because I had a useful basic Toyota book in my possession. This gives a huge range of styles in an equally wide size selection. The raglan shaping looks good on these little sweaters and there are opportunities for making round necklines. Necklines were one of the items I needed to practise. To keep to that basic shape for a while I also incorporated a band of pattern above the waist and cuffs and also stripes on another. At this stage I still wasn't using the ribber attachment but had no trouble with mock ribs.

Raglan shaping was a bit limiting so the next step was to make shaped armholes. It soon became obvious to me that the more I worked at them the looser and more accomplished they would appear. For example, I was so tense that the first few stitches that have to be cast off in a straight line were a nasty little bunch, making it hopeless for fitting the sleeve top in neatly. In a little while I began to tell myself that it really didn't matter, these were little things I was making for my own benefit and once I could relax, so did the casting off and what a difference that made. Much later on I was introduced to the holding method but that was when people began to give me tips, in my early days the object was to teach myself, to demonstrate that it could be done. In those days, if anything went wrong I was inclined to hope that it would go away and if it didn't, I would. My first effort at using holding for shaping a sleeve top makes me grit my teeth even now, years later. How can I forget my frustration as the work seemed to rise in the centre of the needles, while I desperately tried to keep the stitches on? As I say, doing anything not in the book was strictly for the birds.

Jackets came into this project as well. I needed to have a go at making buttonholes and there always seemed to be plenty of buttonholes on children's cardigans and jackets; even their sweaters needed back neck fastenings for very small sizes. I found myself doing small button bands and working out distances between buttonholes and folding bands double – it all helped me to practise picking up stitches in the "hem" style. Where the work was tedious, at least I could console myself that it would soon be over because it was such a little garment.

It was when I was feeling quite confident with the techniques on the small sizes that I came to the conclusion that single ribbed borders would look good on them and that it was time to tackle the ribber. I don't know why I had taken so long to get at it. After working hard at the main bed, setting up and learning how to operate the ribber was relatively simple.

Now my knowledge of shaping and other techniques was improving and I added pockets to my list. I was still having to look at the tuition manual for various reminders, it was to be a very long

time before it became automatic and even when I thought it had I still made some boo-boos. My way of making pockets is not necessarily the same as yours, mine is a hangover from hand knitting days. I work a pocket lining first, beginning and ending with a few rows in waste yarn. Then, when the pocket opening row is reached, I place the opening stitches on to waste yarn and hang the lining stitches on to the empty needles and carry on from there. I use waste yarn at the beginning for speed and by sewing through the open loops in making up, I find you avoid having a ridge at the lower edge of the pocket.

PASSING THE TEST

At the end of this exercise I am only too pleased to say that I felt I could tackle almost anything, albeit rather slowly to start with. Here was a small pile of little garments and I had no problem disposing of them but the real test came when I was asked to make something (still in children's size) to specification. Guess what – with dropped shoulders!

I suppose I could have ranted and raved and asked why I had spent weeks learning to do all these clever things with the machine if all my customers wanted was a plain up and down garment, but of course I didn't, the customer being always right. Dropped shoulders are very fashionable and it would certainly be quicker to make the sweater that way.

The funny thing was that the sweater looked really good and not the sloppy thing that I had visualised. True I had mastered the ribber, so it had single rib welts, cuffs and neckband (with the neck band doubled over) and it all went without a hitch.

Earlier I said that a good sloppy sweater needs to be knitted by someone with plenty of experience. Maybe that's only half the story. It needs to be made by someone with experience of having practised all the details of the machine and who keeps a practised eye on her/his work. I suppose that having taken all that trouble to work out the system I like to be laid back without actually falling over. . .

Denys Brunton Designer Yarns
Fashion at prices you can afford

"I don't mind you reading over my shoulder, but must you cut out the patterns!"

marker at each end.

SHAPE TOP

Dec 1 st at each end of next and every foll alt row until 100 [100, 104, 104, 110, 110, 114, 114] sts rem, then on every foll 3rd row until 86 [86, 90, 90, 96, 96, 100, 100] sts rem. Cast off.

CUFFS

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 56 [56, 59, 59, 62, 62, 65, 65] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

Push 56 [56, 59, 59, 62, 62, 65, 65] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed.

ALL MACHINES

With K side facing, replace 76 [76, 80, 80, 86, 86, 90, 90] sts from lower edge of sleeve on to Ns gathering evenly. Using MT, K 1 row. Cast off.

FRONT BORDER

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 13 sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K strip until long enough to go along both front edges and across back of neck. Cast off.

MACHINES WITHOUT RIBBER

Using MY, cast on 15 sts by hand. Set RC at 000. Using MT–1, K strip until long enough to go along both front edges and across back of neck. Cast off.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

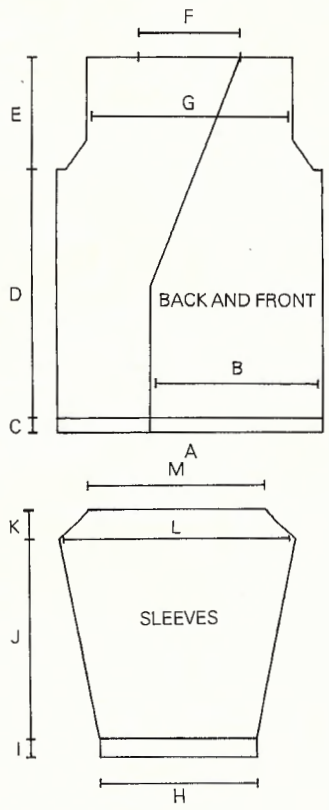
Join shoulder seams. Set in sleeves between markers. Join side and sleeve seams.

MACHINES WITH RIBBER

Sew front border in position.

MACHINES WITHOUT RIBBER

Fold front border in half lengthways and sew in position. Neaten ends.



A = 48.5 [51, 54, 56.5, 59, 61.5, 64, 66] cm
B = 32.25 [33.5, 35, 36.25, 37.5, 38.75, 40, 41] cm
C = 3 cm
D = 51 cm
E = 23 [23, 24, 24, 25, 25, 26, 26] cm
F = 20 [20, 20.5, 20.5, 21.5, 21.5, 22, 22] cm
G = 36.5 [39, 42, 44.5, 47, 49.5, 52, 54] cm
H = 30 [30, 32, 32, 34, 34, 36, 36] cm
I = 5 cm
J = 40 [40, 41, 41, 42, 42, 43, 43] cm
K = 6 cm
L = 46 [46, 48, 48, 50, 50, 52, 52] cm
M = 34 [34, 36, 36, 38, 38, 40, 40] cm

TINKERING WITH A TOYOTA

Here we go again with some repeats of questions and hopefully better answers and further explanations on various techniques that you have asked for.

Ann Taylor

I am taken to task by Mrs. Waker of Enfield who has bought the Mary Weaver book of Technology and Patterns but, she says, finds it is of no use as she has the Toyota 950. I still think it should be of great help and I repeat, for the 901 and 950 machines, ignore the Toyota section which is for the 787 machine, a vastly different machine. Read instead the sections for Jones + Brother, but remember when it says "part buttons", use "empty" on your machines and when it says turn the knob to KC, put your card levers up.

This is a repeat of what I wrote in the first place and, providing you remember these two points, the details of most of the techniques should be of great help – with the exception of lace work.

Even on the punchcard section it remains the same, as the Jones + Brother cards start seven rows down, as do Toyota. That apart, any section of the Mary Weaver book is helpful and the patterns usable for any machine, providing of course that the knitter achieves the same tension.

Mrs. Waker says I seldom mention the 950 machine. I thought I usually mention it with the 910 as they are almost the same with the exception of the lace facility. The 950 has the lace attachment whilst the 910 has a separate carriage for lace.

Regrettably there is no specific publication for either of these machines. If any of you are having difficulties, do write in giving specific details and I can then make the answer part of an article for you.

The question of Simulknit is uppermost in many minds and I am hoping we will have a pattern published in Machine Knitting Monthly before too long.

Mrs. Waker adds a tip for everyone. When using the charter on a lace top she forgot to shape either side of the neck, ended up with a square neck and added a few rounds of crochet and a few buttons. This made what might have been a disaster into a great success and she has received compliments on it.

CHANGING YARNS

Mrs. Hill from near Exeter wonders if there is a simple method of changing yarns for Simulknit, or when using the ribber.

Apart from threading up the double eyed bodkin and dropping it down through, I know of no method other than that shown in the instruction book.

The idea of tying one colour to the next and pulling it through certainly speeds things up but, as you say, can make the end stitches loose. One could tie them before proceeding which could make a difference but it will, as you say, leave many ends to be sewn in.

To maintain the same thickness of fabric after borders in Simulknit, or a small portion of Fair Isle on a garment, is another matter. If using two strands of 2/30's for the Fair Isle, one could try using three strands for the remainder and of course a tension swatch in both would be essential

WELTS FOR SIMULKNIT

You ask also about using full needle rib for the welt and really this is not advisable as they would not be tight as one usually prefers a welt to be. Some knitters use a

tight tubular hem and others use a two by one rib (two by two when set). If using the latter, on the final row when the non-working needles are brought into position and the ribber is of course on half pitch – set it to pitch and knit one row circular (registering two rows on the row counter) return to half pitch and continue in full needle rib for the main part. This does leave a row of small holes and some knitters pick up the heel of the stitch and place it on to the empty needles before proceeding as above.

STITCH SIZE ON THE MAIN BED AND RIBBER ADJUSTMENTS

As far as I am aware, the stitch size on the main bed and the ribber are the same. On a four ply rib I usually use tension three on the main bed and tension three on the ribber, depending on whether the four ply is a full or fine four ply.

I have always understood that the Toyota ribber does not need adjusting providing that it has been correctly assembled in the first place.

When on pitch, the needles on the main bed and those on the ribber should meet head on when brought forward. Remember P equals point to point.

This then explains the need to go to half pitch for the full needle rib – to allow the needles to glide past each other and not to clash point to point or head on. As you say your ribber moves, do check that it is set up correctly and that all the clamps are firmly in situ.

SETTINGS FOR LARGER RIBS

I do not think any of the instructions in the instruction book, for any make of machine emphasises enough the set up required for wider ribs. For example, any five by five rib or a seven by seven rib (anything over a two by two) must be cast on in full needle rib. Then the circular row are knitted. Then and only then are the stitches transferred for the desired rib.

It is a stock question in any ribber class I take – "I cannot cast on for a wide rib, why?" Now that you know the answer, I hope you will have no further difficulties.

Any of these wider ribs spring back when they come off the machine and although they can be steamed out, sometimes the effect is lost when this is done.

As you particularly want a wide rib to look wide, I suggest you have every needle working on the main bed and set the ribber needles for five or seven or whatever. This "backing" on the main bed ensures that the rib will retain its shape. Do remember though, once again, to cast on in full needle rib on both beds, knit the circular rows and then transfer the stitches from the ribber up to the main bed to achieve the setting you require.

Then bring all the needles on both beds out to E position and, setting the machine to knit back, knit that row carefully as sometimes it can be rather a tight row. Another tip is to bring the needles to E position as before, then lay the nylon cord across the stitches and hold it down whilst knitting the row. It can be removed when the knitting is finished.

You ask for more books on the ribber, other than Mary Weaver and Kathleen Kinder, but full of information. I know of none that contain as much as these two authors give.

Tami Noboyuki has a book on the ribber, but do have a look at it before buying, you may find that you have most of the information anyway.

You could also have a look at the Brother book for the ribber, providing you know the difference in the machines and realise that Simulknit is not like the Jacquard knitting which the other Japanese machines produce.

PUNCHING CARDS

Mrs. Gray from near Bristol manages to punch cards for her 858, but the pattern goes wrong at the point where the card joins.

Your best plan, Mrs. Gray, is to look carefully at the punchcards that came with your machine and see where the holes for the clips are punched in connection with the two rows of holes punched at the top and bottom of the card.

The two rows of holes do not fold over each other. They allow the last or the first row of the pattern to show through, thus making the pattern continuous so the holes for the clips must be punched in the correct place to allow this to happen. I also trim a little piece off the card after punching the side holes so that, should the two edges not completely align, they will not jut out and get caught in the card feeder.

The tuck stitch problem you mention is I suspect caused by lack of weight. Hook the cast-on comb into your work and hang a claw weight on either end of the comb to ensure an even distribution of weight.

MECHANICAL PROBLEMS

I do keep repeating that any mechanical problems on the machine should be dealt with by a knitting machine mechanic.

A lady has written in saying that her cards for tuck stitch bend and come to a halt when in the machine and appear to be caught in the mechanism inside the machine. As this does not happen on lace and Fair Isle cards the knitter obviously knows how to insert the card and ensure that it is straight before proceeding further, so this would appear to be a job for the expertise of a mechanic.

I was told a real horror story the other week.

The needle selection on a machine was not working properly and the owner had righted the problem by spraying WD 40 into the needle bed. Please DO NOT use WD 40 on your machine. It is a marvellous spray to loosen nuts and bolts, rusted parts and sticking parts on certain objects – but – who wants to do this to a knitting machine? You could well end up loosening a lot of bits and pieces that should be firmly in place – and then what? It is a false economy to have a go when mechanical parts go wrong.

TENSION SWATCHES

These always crop up in some form or other! A knitter writes that whatever the tension dial – five, six or seven – she gets 29 stitches to four inches or ten centimetres. "Please" she says, "what am I doing wrong?".

If you are trying for 28 stitches for four inches or ten centimetres, then 29 stitches is not going to make that much difference to the finished size of the garment. For instance, if you have the front twenty inches wide and instead of 28 stitches to every four inches or ten centimetres, you have 29 stitches, the garment front will be five stitches wider. By the time the garment is seamed, that difference will have been reduced. One stitch either side of the desired amount will not make that much difference – though to err on the side of one more rather than one less is a better idea.

Altering the top of the tension mast may make a difference to the number of rows to four inches or ten centimetres, while the stitch tension may remain the same.

As the stitch tension must be accurate, to one stitch either side of the required amount, altering the top mast tension may alter the stitches as well. It is far better to get as near an accurate stitch reading as you can and then adjust the rows as you knit according to the number of rows to four inches or ten centimetres that you are getting on your swatch.

I know it all sounds very confusing to beginners, but please continue trying because it is only by persevering that you will get there. Tension swatches are probably the biggest reason for someone giving up machine knitting, but they do finally come right. Many of you, particularly the housebound or the knitter who cannot get to a club or a class, may still have a problem in counting for a tension swatch. There is a green ruler, made by Knitmaster, which will count it all out ready for you and I do recommend that you buy one – mail order if necessary or send for one of Kamalini Trentham's tension rulers which will give you the number of stitches to one inch and the number of rows to one inch. One then only has to multiply by four to get the number to four inches. Either of these rulers take the eye strain and heartbreak out of measuring swatches. Of course, if you are using a charting device, then you choose the tension that you wish to knit at and these two rulers are of no use because one then uses a centimetre ruler to find out which stitch ruler is required and how many rows.

I hope this has answered some queries for some of you.

As yet, there has been no response to neckbands, hems and bands in general. Do let us share your ideas if you have some that work for you.

Happy knitting.

"Good thing I was knitting when you invited me to your come-as-you-are party or I'd be bored stiff now."

12A SHORT-SLEEVED LACE CARDIGAN

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with lace carriage and with or without a ribber.

MATERIALS

Bramwell Hobby and Silky.
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone of Hobby in White (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone of Silky in White (MY).
10 buttons.

GARMENT WEIGHT
Finished garment in second size weighs 220g.

The fibre content of Hobby is 83% Acrylic, 17% Nylon; Silky is 100% Acrylic. For further details about local or mail order stockists, please write to F. W. Bramwell & Co., Unit 5, Metcalf Drive, Altham Lane, Altham, Accrington BB5 5TU.

YARN THICKNESS

One strand of Hobby knitted together with one strand of Silky is medium weight and knits as four ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 93 [98, 104, 108, 113, 118, 124, 128] cm, 36½ [38½, 41, 42½, 44½, 46½, 48¾, 50½] in.
Length to shoulder 57 [57, 58, 58, 59, 59, 60, 60] cm, 22½ [22½, 23, 23, 23¼, 23¼, 23¾, 23¾] in.
Sleeve seam 17.5 [17.5, 18.5, 18.5, 19.5, 19.5, 20.5, 20.5] cm, 7 [7, 7¼, 7¼, 7¾, 7¾, 8, 8] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

26 stitches and 40 rows to 10 cm, 4 in measured over lace pattern using 2 strands of yarn together (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Punch card, as shown, before starting to knit. This punchcard is suitable for Jones+Brother punchcard machines. Toyota 901 owners should reverse the card before knitting. For other models we suggest you substitute a similar lace pattern specially recommended for your machine. Two strands of yarn are used together throughout.

BACK

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 61 [64, 68, 71, 74, 77, 81, 84] Ns at left and 62 [65, 69, 72, 75, 78, 82, 85] Ns at right of centre 0 to WP. 123 [129, 137, 143, 149, 155, 163, 169] Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st *.
MACHINES WITHOUT RIBBER
Push 61 [64, 68, 71, 74, 77, 80, 83] Ns at left and 61 [64, 69, 72, 75, 78, 81, 84] Ns at right of centre 0 to WP. 122 [128, 137, 143, 149, 155, 161, 167] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *.
1ST AND 2ND SIZES
Inc 1 st at right edge.
7TH AND 8TH SIZES
Inc 1 st at each end.
ALL SIZES
123 [129, 137, 143, 149, 155, 163, 169] sts.
ALL MACHINES
Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 118 rows. RC shows 120 and work measures 35 cm, 13¾ in.
SHAPE ARMHOLES
Cast off 13 sts at beg of next 2 rows. 97 [103, 111, 117, 123, 129, 137, 143] sts. K 78 [78, 82, 82, 86, 86, 90, 90] rows.
SHAPE NECK
Note patt row on card. Using a length of MY, cast off centre 31 [31, 33, 33, 35, 35, 37, 37] sts. Using nylon cord, K 33 [36, 39, 42, 44, 47, 50, 53] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. Dec 1 st at neck edge of next 8 rows. Cast off rem 25 [28, 31, 34, 36, 39, 42, 45] sts. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to right without knitting. Release card and cont in lace patt. Finish to correspond with first side reversing shapings.

RIGHT FRONT

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push Ns 4 to 62 [65, 69, 72, 75, 78, 82, 85] inclusive at right of centre 0 to WP. 59 [62, 66, 69, 72, 75, 79, 82] Ns. Work as for back from * to *.
MACHINES WITHOUT RIBBER
Push Ns 4 to 62 [65, 68, 71, 74, 77, 83, 86] inclusive at right of centre 0 to WP. 59 [62, 65, 68, 71, 74, 80, 83] Ns. Work as for back from * to *.
3RD, 4TH, 5TH AND 6TH SIZES
Inc 1 st at right edge.
7TH AND 8TH SIZES
Dec 1 st at right edge.
ALL SIZES
59 [62, 66, 69, 72, 75, 79, 82] sts.
ALL MACHINES
** Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 118 rows. RC shows 120 and work measures 35 cm, 13¾ in. K 1 row extra for left front only.
SHAPE ARMHOLE
Cast off 13 sts at beg of next row. 46 [49, 53, 56, 59, 62, 66, 69] sts. K 52 [52, 56, 56, 60, 60, 64, 64] rows.
SHAPE NECK
Cast off 4 [4, 5, 5, 6, 6, 7, 7] sts at beg of next row, K 1 row. Dec 1 st at neck edge of every row until 25 [28, 31, 34, 36, 39, 42, 45] sts rem. K 16 rows. Cast off **.

LEFT FRONT

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push Ns 3 to 61 [64, 68, 71, 74, 77, 81, 84] inclusive at left of centre 0 to WP. 59 [62, 66, 69, 72, 75, 79, 82] Ns. Work as for back from * to *.
MACHINES WITHOUT RIBBER
Push Ns 3 to 61 [64, 67, 70, 73, 76, 82, 85] inclusive at left of centre 0 to WP. 59 [62, 65, 68, 71, 74, 80, 83] Ns. Work as for back from * to *.
3RD, 4TH, 5TH AND 6TH SIZES
Inc 1 st at left edge.
7TH AND 8TH SIZES
Dec 1 st at left edge.
ALL SIZES
59 [62, 66, 69, 72, 75, 79, 82] sts.
ALL MACHINES
Work as for left front from ** to ** reversing shapings by noting alteration in number of rows worked.

SLEEVES

Push 57 [57, 60, 60, 62, 62, 65, 65] Ns at left and 58 [58, 61, 61, 63, 63, 66, 66] Ns at right of centre 0 to WP. 115 [115, 121, 121, 125, 125, 131, 131] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Insert card and lock on first row. Set RC at 000. Using MY, K 2 rows. Release card and cont in lace patt. K 58 [58, 62, 62, 66, 66, 70, 70] rows. RC shows 60 [60, 64, 64, 68, 68, 72, 72] and work measures 15 [15, 16, 16, 17, 17, 18, 18] cm, 6 [6, 6¼, 6¼, 6¾, 6¾, 7, 7] in. Place marker at each end. K 20 rows. Cast off.

CUFFS

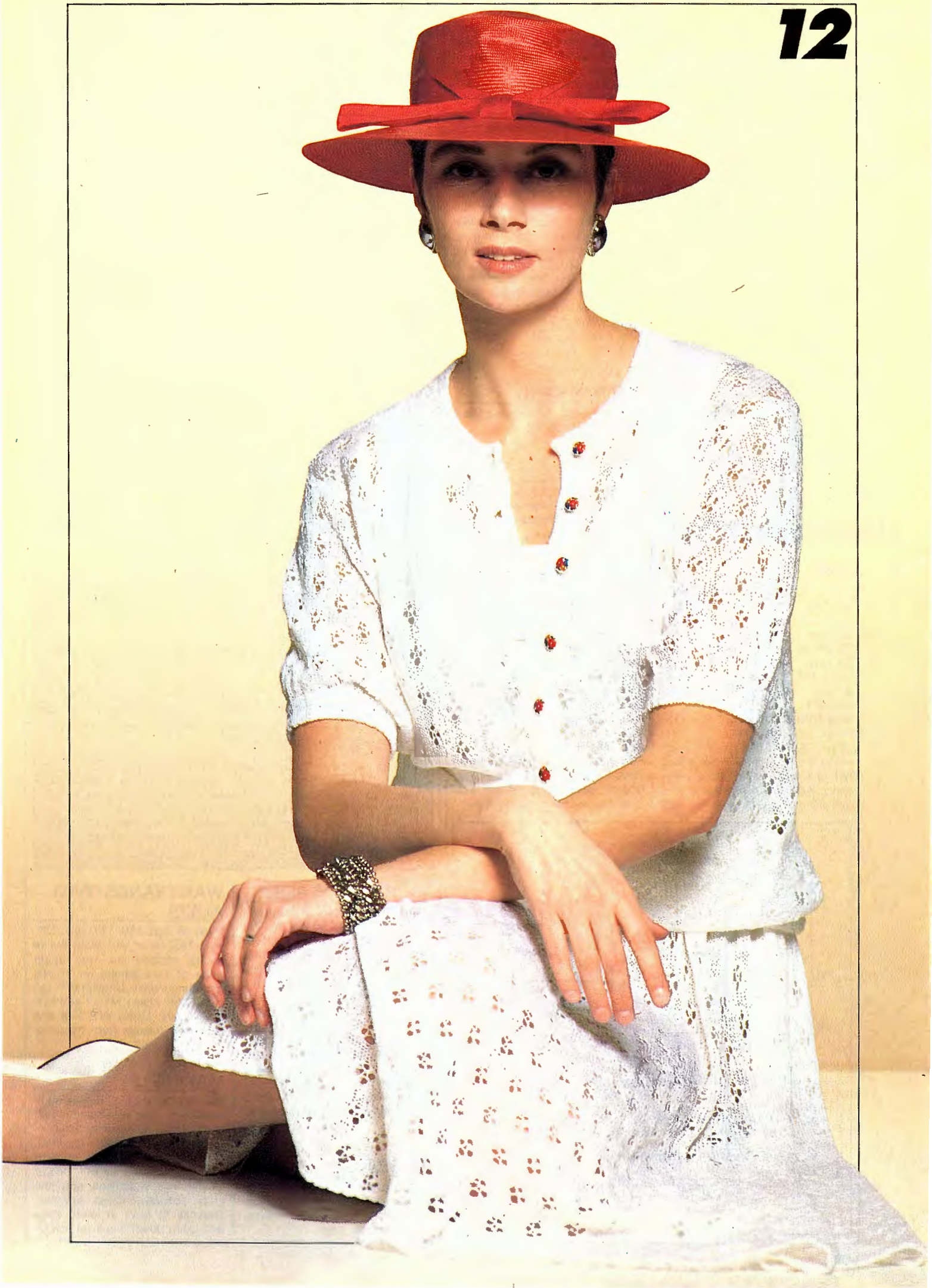
MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 83 [83, 89, 89, 95, 95, 101, 101] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 11 rows. Transfer sts for st st.
MACHINES WITHOUT RIBBER
Push 83 [83, 89, 89, 95, 95, 101, 101] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 23 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed.
ALL MACHINES
With P side facing, replace 115 [115, 121, 121, 125, 125, 131, 131] sts from lower edge of sleeve on to Ns gathering evenly. Using MT, K 1 row. Cast off.

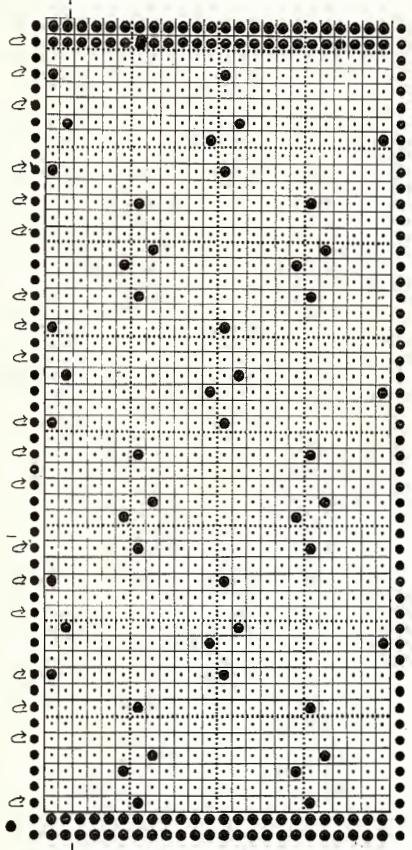
NECKBAND

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 128

Hat, THE HAT SHOP. Jewellery, NEXT.

68►





◀ 66

[128, 131, 131, 137, 137, 140, 140] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 21 rows. Transfer sts for st st. Using MT, K 2 rows. Using WY, K a few rows and release from machine.

MACHINES WITHOUT RIBBER

Push 128 [128, 131, 131, 137, 137, 140, 140] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–1 and MY, K 5 rows. Using MT–2, K 11 rows. Using MT–1, K 5 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. Using MT, K 2 rows. Using WY, K a few rows and release from machine.

BUTTONHOLE BAND

Using MY, cast on 17 sts by hand. Set RC at 000. Using MT–1, K 6 [6, 8, 8, 6, 6, 8, 8] rows. * Counting from both edges, make buttonholes over sts 4, 5 and 6. K 20 [20, 20, 20, 21, 21, 21, 21] rows. Rep from * 8 times more. Make buttonholes over same sts as before. K 6 [6, 8, 8, 5, 5, 7, 7] rows. RC shows 192 [192, 196, 196, 200, 200, 204, 204]. Cast off.

BUTTON BAND

Work as for buttonhole band omitting buttonholes.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

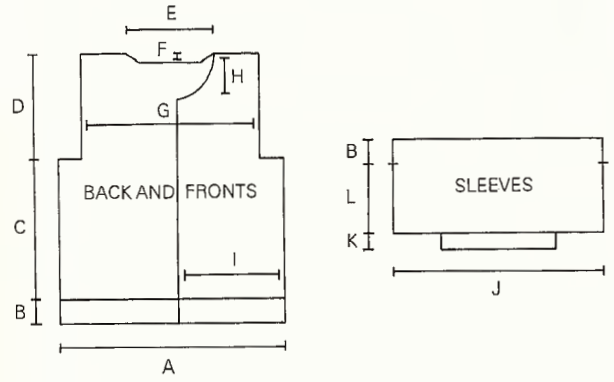
Join shoulder seams. Set in sleeves, sewing rows above markers to cast off sts on back and fronts. Join side and sleeve seams. Pin neckband into position. Unravelling WY as required, backstitch through open loops of last row worked in MY.

MACHINES WITH RIBBER

Fold neckband in half to inside and catch down.

ALL MACHINES

Fold front bands in half lengthways and sew into position. Neaten open ends. Finish buttonholes and sew on buttons.



A = 47 [49.5, 52.5, 55, 57, 59.5, 62.5, 65] cm
B = 5 cm
C = 30 cm
D = 22 [22, 23, 23, 24, 24, 25, 25] cm
E = 18 [18, 18.5, 18.5, 19.5, 19.5, 20, 20] cm
F = 2 cm
G = 37 [39.5, 42.5, 45, 47, 49.5, 52.5, 55] cm
H = 8.5 cm
I = 22.25 [23.5, 25, 26.25, 27.25, 28.5, 30, 31.25] cm
J = 44 [44, 46, 46, 48, 48, 50, 50] cm
K = 3.5 cm
L = 15 [15, 16, 16, 17, 17, 18, 18] cm

12B FOUR PANELLED LACE SKIRT

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with lace carriage.

MATERIALS

Bramwell Hobby and Silky.
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone of Hobby in White (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone of Silky in White (MY).
Elastic to fit waist.

GARMENT WEIGHT

Finished garment in second size weighs 370g.

The fibre content of Hobby is 83% Acrylic, 17% Nylon; Silky is 100% Acrylic. For further details about local or mail order stockists, please write to F. W. Bramwell & Co. Ltd., Unit 5, Metcalf Drive, Altham Lane, Altham, Accrington BB5 5TU.

YARN THICKNESS

One strand of Hobby knitted together with one strand of Silky is medium weight and knits as four ply.

MEASUREMENTS

To fit hips 87 [92, 97, 102, 107, 112, 117, 122] cm, 34 [36, 38, 40, 42, 44, 46, 48] in.
Actual size 194 [204, 214, 226, 234, 244, 254, 266] cm, 76½ [80½, 84½, 89, 92, 96, 100, 104½] in.
Knitted length to waistband 67 cm, 26½ in (adjustable).

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

26 stitches and 40 rows to 10 cm, 4 in measured over lace pattern using two strands of yarn together (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

KNITTING NOTES

We used knit side of knitting as right side of garment. Punch card, as shown, before starting to knit. This pattern is suitable for Jones+Brother punchcard machines. Toyota 901 owners should reverse the card before knitting. For other models, we suggest you substitute a similar lace pattern specially recommended for your machine. Two strands of yarn are used together throughout.

FOUR PANELS ALIKE

Push 64 [67, 70, 74, 77, 80, 83, 87] Ns at left and 65 [68, 71, 75, 78, 81, 84, 88] Ns at right of centre 0 to WP. 129 [135, 141, 149, 155, 161, 167, 175] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT and MY, K 10 rows. Insert card and lock on first row. K 2 rows. Set RC at 000. Release card and cont in lace patt. K 248 rows. Adjust length at this stage, if desired. Using WY, K a few rows in st st and release from machine.

PRESSING

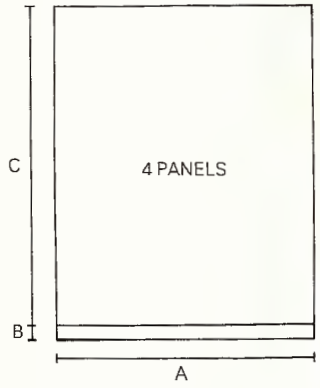
With wrong side facing; pin out all pieces to measurements given. Press carefully following instructions on cone band.

WAISTBANDS (TWO ALIKE)

Push 96 [103, 110, 117, 124, 131, 138, 145] Ns to WP. With K side facing, replace sts from upper edge of two panels on to Ns, gathering evenly. Unravel WY. Set RC at 000. Using MT–1 and MY, K 25 rows. Using WY, K a few rows and release from machine.

MAKING UP

Join seams, leaving an opening in waistband. Fold waistband in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in MY. Insert elastic into waistband and join ends securely. Close opening. Turn up 12 rows at lower edge and catch down loops on inside.



A = 49.5 [51.5, 54, 57, 59.5, 61.5, 64, 67] cm
B = 3 cm
C = 67 cm

13A LACE SWEATER

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with lace carriage and with or without a ribber.

MATERIALS

Bramwell's Hobby and Silky
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone Hobby in Dusty Pink (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone Silky in Dusty Pink (MY).

GARMENT WEIGHT

Finished garment in second size weighs 270g.

The fibre content of Hobby is 83% Acrylic, 17% Nylon; Silky is 100% Bright Acrylic. For further details about local or mail order stockists, please write to F. W. Bramwell & Co. Ltd., Unit 5, Metcalf Drive, Altham Lane, Altham, Accrington BB5 5TU.

YARN THICKNESS

One strand of Hobby knitted together with one strand of Silky is medium weight and knits as four ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 93 [98, 104, 108, 113, 118, 124, 128] cm, 36½ [38½, 41, 42½, 44½, 46½, 48¾, 50½] in.
Length to shoulder 57 [57, 58, 58, 59, 59, 60, 60] cm, 22½ [22½, 23, 23, 23¼, 23¼, 23¾, 23¾] in.
Sleeve seam 45 [45, 46, 46, 47, 47, 48, 48] cm, 17¾ [17¾, 18¼, 18¼, 18½, 18½, 19, 19] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

26 stitches and 40 rows to 10 cm, 4 in measured over lace patterns using two strands of yarn together (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used knit side of knitting as right side of garment. Punch cards, (page 71) before starting to knit. This pattern is suitable for Toyota 901 punchcard machines. Brother owners should use the cards and reverse them before knitting. For other models we suggest you substitute two similar lace patterns specially recommended for your machine. Two strands of yarn are used together throughout. We used a Toyota card for this pattern and reproduce it courtesy of Toyota. For further information about Toyota cards and machines, please write to Aisin Company (UK) Limited, 34 High Street, Bromley, Kent BR1 1EA.

BACK

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Push 62 [65, 69, 72, 75, 78, 82, 85] Ns at left and 61 [64, 68, 71, 74, 77, 81, 84] Ns at right of centre 0 to WP. 123 [129, 137, 143, 149, 155, 163, 169] Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. * Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st *.

MACHINES WITHOUT RIBBER

Push 61 [64, 69, 72, 75, 78, 81, 84] Ns at left and 61 [64, 68, 71, 74, 77, 80, 83] Ns at right of centre 0 to WP. 122 [128, 137, 143, 149, 155, 161, 167] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 45 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *.

1ST AND 2ND SIZES

Inc 1 st at left edge.

7TH AND 8TH SIZES

Inc 1 st at each end.

ALL SIZES

123 [129, 137, 143, 149, 155, 163, 169] sts.

ALL MACHINES

Insert card A and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 118 rows. RC shows 120 and work measures 35 cm, 13¾ in. Place marker at each end **. K 80 [80, 84, 84, 88, 88, 92, 92] rows.

SHAPE NECK

Note patt row on card. Using nylon cord, K 77 [80, 85, 88, 92, 95, 100, 103] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. Dec 1 st at neck edge of next 8 rows. Cast off rem 38 [41, 44, 47, 49, 52, 55, 58] sts. With carriage at right, unravel nylon cord over 31 [31, 33, 33, 35, 35, 37, 37] Ns at right bringing Ns back to WP. Using WY, K a few rows in st st and release from machine. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to right without knitting. Release card and cont in lace patt. Finish to correspond with first side reversing shapings.

FRONT

Work as for back to **. K 54 [54, 58, 58, 62, 62, 66, 66] rows. 34 rows less have been worked to shoulder than on back.

SHAPE NECK

Note patt row on card. Using nylon cord, K 74 [77, 82, 85, 89, 92, 97, 100] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 1 row. Dec 1 st at neck edge of every row until 44 [47, 50, 53, 55, 58, 61, 64] sts rem, then on every foll alt row until 38 [41, 44, 47, 49, 52, 55, 58] sts rem. K 16 rows. Cast off. With carriage at right, unravel nylon cord over 25 [25, 27, 27, 29, 29, 31, 31] Ns at right bringing Ns back to WP. Using WY, K a few rows in st st and release from machine. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to right without knitting. Release card and cont in lace patt. Finish to correspond with first side reversing shapings.

SLEEVES

Push 57 [57, 60, 60, 62, 62, 65, 65] Ns at left and 58 [58, 61, 61, 63, 63, 66, 66] Ns at right of centre 0 to WP. 115 [115, 121, 121, 125, 125, 131, 131] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Insert card B and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in lace patt. K 158 [158, 162, 162, 166, 166, 170, 170] rows. RC shows 160 [160, 164, 164, 168, 168, 172, 172] and work measures 40 [40, 41, 41, 42, 42, 43, 43] cm, 15¾ [15¾, 16¼, 16¼, 16½, 16½, 17, 17] in. Cast off.

CUFFS

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 56 [56, 59, 59, 62, 62, 65, 65] sts in 1×1 rib. K 5 tubular rows. Work as for back from * to *.

MACHINES WITHOUT RIBBER

Push 56 [56, 59, 59, 62, 62, 65, 65] Ns to WP. Work as for back from * to *.

ALL MACHINES

With K side facing, replace 115 [115, 121, 121, 125, 125, 131, 131] sts from lower edge of sleeve on to Ns, gathering evenly. Using MT, K 1 row. Cast off.

NECKBAND

Join right shoulder seam. Push 134 [134, 137, 137, 143, 143, 146, 146] Ns to WP. With P side facing, pick up 26 sts down left side of front neck, 25 [25, 27, 27, 29, 29, 31, 31] sts across front neck, inc 4 [4, 3, 3, 5, 5, 4, 4] sts evenly, 26 sts up right side of front neck, 9 sts down right side of back neck, 31 [31, 33, 33, 35, 35, 37, 37] sts across back neck, inc 4 sts evenly and 9 sts up left side of back neck and place on to Ns. Using MT and MY, K 1 row.

MACHINES WITH RIBBER

With ribber in position, set machine for 1×1 rib. Transfer every alt st on to corresponding Ns on ribber. Cont in 1×1 rib. Using MT–4/MT–4, K 21 rows. Transfer sts for st st. Using MT, K 2 rows. Using WY, K a few rows and release from machine.

MACHINES WITHOUT RIBBER

Transfer every 3rd st on to adjacent N and push empty Ns to NWP. Using MT–1, K 5 rows. 74►

13B PANELLED LACE SKIRT

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with lace carriage.

MATERIALS

Bramwells Hobby and Silky
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone Hobby in Dusty Pink (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone Silky in Dusty Pink (MY).
Elastic to fit waist.

GARMENT WEIGHT

Finished garment in second size weighs 375g.

The fibre content of Hobby is 83% Acrylic, 17% Nylon; Silky is 100% Bright Acrylic. For further details about local or mail order stockists, please write to F. W. Bramwell & Co. Ltd., Unit 5, Metcalf Drive, Altham Lane, Altham, Accrington BB5 5TU.

YARN THICKNESS

One strand of Hobby knitted together with one strand of Silky is medium weight and knits as four ply.

MEASUREMENTS

To fit hips 87 [92, 97, 102, 107, 112, 117, 122] cm, 34 [36, 38, 40, 42, 44, 46, 48] in.
Actual size 194 [204, 214, 226, 234, 244, 254, 266] cm, 76½ [80½, 84½, 89, 92, 96, 100, 104½] in.
Knitted length to waistband 67 cm, 26½ in (adjustable).

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

26 stitches and 40 rows to 10 cm, 4 in measured over lace pattern using two strands of yarn together (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

KNITTING NOTES

We used knit side of knitting as right side of garment. Punch card A, right, before starting to knit. This pattern is suitable for Toyota 901 punchcard machines. Brother owners should use the card and reverse it before knitting. For other models, we suggest you substitute a similar lace pattern specially recommended for your machine. We used Toyota cards for this pattern and reproduce them courtesy of Toyota. For further information about Toyota cards and machines, please write to Aisin Company (UK) Limited, 34 High Street, Bromley, Kent BR1 1EA. Two strands of yarn are used together throughout.

FOUR PANELS ALIKE

Push 64 [67, 70, 74, 77, 80, 83, 87] Ns at left and 65 [68, 71, 75, 78, 81, 84, 88] Ns at right of centre 0 to WP. 129 [135, 141, 149, 155, 161, 167, 175] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT and MY, K 10 rows. Insert card and lock on first row. K 2 rows. Set RC at 000. Release card and cont in lace patt. K 268 rows. Adjust length at this stage if desired. Using WY, K a few rows in st st and release from machine.

PRESSING

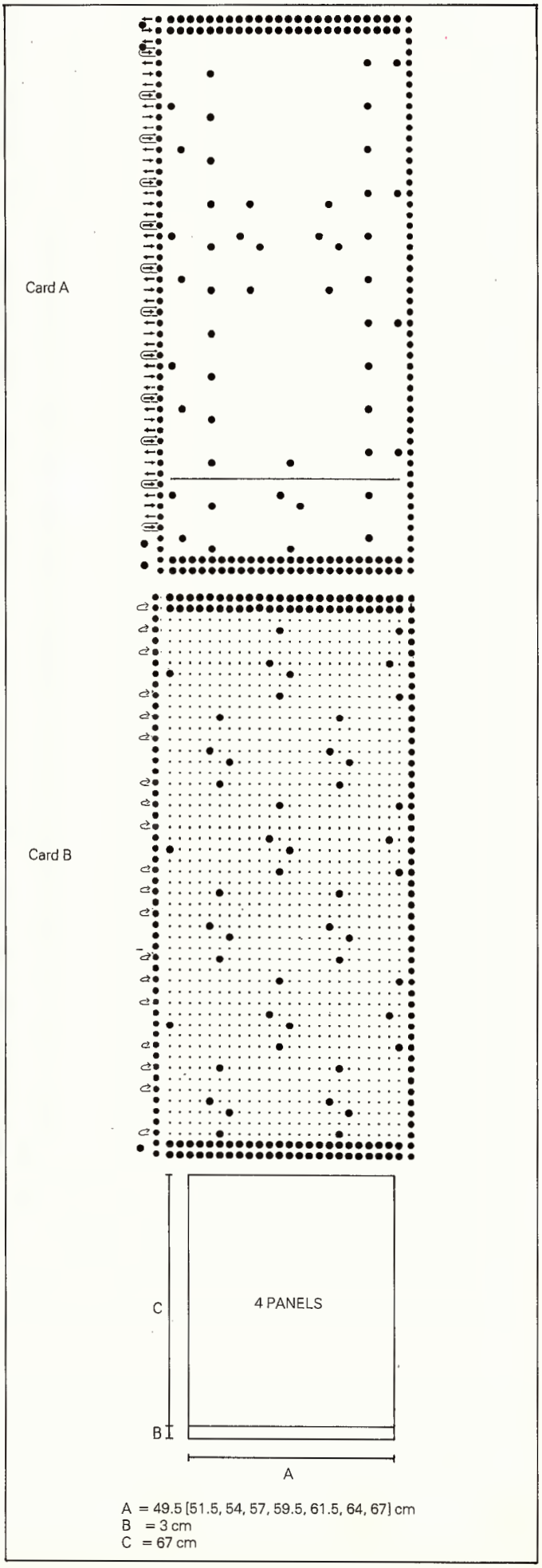
With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

WAISTBANDS (TWO ALIKE)

Push 96 [103, 110, 117, 124, 131, 138, 145] Ns to WP. With K side facing, replace sts from upper edge of two panels on to Ns gathering evenly. Unravel WY. Set RC at 000. Using MT–1 and MY, K 25 rows. Using WY, K a few rows and release from machine.

MAKING UP

Join seams, leaving an opening in waistband. Fold waistband in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in MY. Insert elastic into waistband and join ends securely. Close opening. Turn up 12 rows at lower edge and catch down loops on inside.



A = 49.5 [51.5, 54, 57, 59.5, 61.5, 64, 67] cm
B = 3 cm
C = 67 cm

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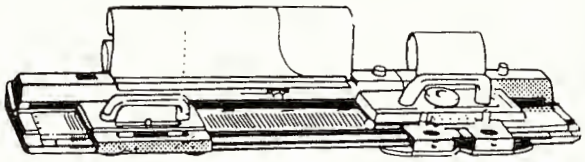

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14 A TUCK STITCH SWEATER

PATTERN RATING

** Fairly easy for knitters with some experience.

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines with or without a ribber.

MATERIALS

C.Y.S. Algarve 4-ply Perlé.
2 [2, 2, 2, 2, 2, 2, 2] × 500g cones in Lilac (MY).
1 [1, 1, 1, 1, 1, 1, 1] × 500g cone in White (C).
GARMENT WEIGHT
Finished garment in second size weighs 575g.

The fibre content of this yarn is 100% Acrylic. For further details about local or mail order stockists, please write to C.Y.S., 4 & 8, St. Mary's Gate, Rochdale, Lancashire OL16 1DZ.

YARN THICKNESS

This yarn is medium weight and knits as four ply.

MEASUREMENTS

To fit bust 82 [87, 92, 97, 102, 107, 112, 117] cm, 32 [34, 36, 38, 40, 42, 44, 46] in.
Actual size 93 [98, 104, 108, 113, 118, 124, 128] cm, 36½ [38½, 41, 42½, 44½, 46½, 48¾, 50½] in.
Length to shoulder 67 [67, 68, 68, 69, 69, 70, 70] cm, 26½ [26½, 26¾, 26¾, 27¼, 27¼, 27½, 27½] in.
Sleeve seam 45 [45, 46, 46, 47, 47, 48, 48] cm, 17¾ [17¾, 18¼, 18¼, 18½, 18½, 19, 19] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

26 stitches and 60 rows to 10 cm, 4 in measured over tuck stitch pattern (tension dial setting approximately 7).
28 stitches and 40 rows to 10 cm, 4 in measured over stocking stitch (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

KNITTING NOTES

We used knit side of knitting as right side of stocking stitch and cable. We used purl side of knitting as right side of tuck stitch. Punch card, as shown, before starting to knit. Fill in pattern card, as shown, before starting to knit.
KNITMASTER ELECTRONIC MACHINES
Set pattern width indicator at 4. Place needle 1 cam at centre 0 and point cams 2 Ns in from each edge. Press button 1 (right light on) and button 2 (right light on 560 machines, left light on 580 machines).
BROTHER ELECTRONIC MACHINES
Position pattern each side of centre 0.
CABLE PATTERN
Cables are worked over 9 sts between Ns in NWP and counting from the left, these sts are numbered 1 to 9. * Cross sts 1, 2 and 3 behind sts 4, 5 and 6. K 6 rows. Cross sts 7, 8 and 9 behind sts 4, 5 and 6. K 6 rows. Rep from * throughout.

BACK

MACHINES WITH RIBBER
With ribber in position and carriage at right, set machine for 1×1 rib. Push 62 [65, 69, 72, 75, 78, 82, 85] Ns at left and 61 [64, 68, 71, 74, 77, 81, 84] Ns at right of centre 0 to WP. 123 [129, 137, 143, 149, 155, 163, 169] Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MY, cast on and K 5 tubular rows. * Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 22 rows. Transfer sts for st st *.
MACHINES WITHOUT RIBBER
Push 61 [64, 69, 72, 75, 78, 81, 84] Ns at left and 61 [64, 68, 71, 74, 77, 80, 83] Ns at right of centre 0 to WP. 122 [128, 137, 143, 149, 155, 161, 167] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 45 rows. Push Ns from

74▶

◀72

◀69

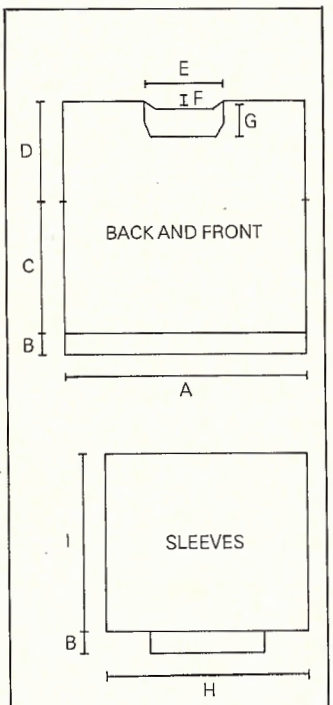
Using MT–2, K 11 rows. Using MT–1, K 5 rows. Push Ns from NWP to WP and place loop from row below adjacent st on to empty Ns. Using MT, K 2 rows. Using WY, K a few rows and release from machne.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join left shoulder and neckband seam. Set in sleeves between markers. Join side and sleeve seams. Fold neckband in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in MY.



A = 47 [49.5, 52.5, 55, 57, 59.5, 62.5, 65] cm
B = 5 cm
C = 30 cm
D = 22 [22, 23, 23, 24, 24, 25, 25] cm
E = 18 [18, 18.5, 18.5, 19.5, 19.5, 20, 20] cm
F = 2 cm
G = 8.5 cm
H = 44 [44, 46, 46, 48, 48, 50, 50] cm
I = 40 [40, 41, 41, 42, 42, 43, 43] cm

NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *.

1ST AND 2ND SIZES

Inc 1 st at right edge (left edge for Brother 881 machines).

7TH AND 8TH SIZES

Inc 1 st at each end.

ALL SIZES

123 [129, 137, 143, 149, 155, 163, 169] sts.

ALL MACHINES

Insert card and lock on first row. Set RC at 000. Using MT, K 2 rows. Release card and cont in tuck st patt **. K 238 rows. RC shows 240 and work measures 45 cm, 17¾ in. Place marker at each end. K 132 [132, 138, 138, 144, 144, 150, 150] rows. RC shows 372 [372, 378, 378, 384, 384, 390, 390] and work measures 67 [67, 68, 68, 69, 69, 70, 70] cm, 26½ [26½, 26¾, 26¾, 27¼, 27¼, 27½, 27½] in.

SHAPE SHOULDERS

Cast off 38 [41, 44, 47, 49, 52, 55, 58] sts at beg of next 2 rows. Cast off rem 47 [47, 49, 49, 51, 51, 53, 53] sts.

FRONT

Work as for back to **. K 172 rows.

SHAPE FRONT EDGES

Note patt row on card. Transfer centre st on to adjacent N. Using nylon cord, K 61 [64, 68, 71, 74, 77, 81, 84] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 2 rows. Dec 1 st at left edge of next and every foll 3rd row until 53 [56, 62, 65, 70, 73, 79, 82] sts rem, then on every foll 4th row until 43 [46, 50, 53, 57, 60, 64, 67] sts rem. K 2 [2, 0, 0, 2, 2, 0, 0] rows. Mark right edge with waste yarn. Cont to dec at left edge on every 4th row from previous dec until 10 [13, 16, 19, 21, 24, 27, 30] sts rem. K 2 rows. Cast off. With carriage at right, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to left without knitting. Release card and cont in tuck st patt. Finish to correspond with first side, reversing shapings by reading left for right and right for left.

SLEEVES

Push 45 [45, 48, 48, 50, 50, 53, 53] Ns at left and 44 [44, 47, 47, 49, 49, 52, 52] Ns at right of centre 0 to WP. 89 [89, 95, 95, 99, 99, 105, 105] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Insert card and cont on first row. Set RC at 000. Using MY, K 2 rows. Release card and cont in tuck st patt. K 16 rows. Shape sides by inc 1 st at each end of next and every foll 18th row until there are 115 [115, 121, 121, 125, 125, 131, 131] sts. K 5 [5, 11, 11, 17, 17, 23, 23] rows. RC shows 240 [240, 246, 246, 252, 252, 258, 258] and work measures 40 [40, 41, 41, 42, 42, 43, 43] cm, 15¾ [15¾, 16¼, 16¼, 16½, 16½, 17, 17] in. Cast off.

CUFFS

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using MY, cast on 56 [56, 59, 59, 62, 62, 65, 65] sts in 1×1 rib. K 5 tubular rows. Work as for back from * to *.

MACHINES WITHOUT RIBBER

Push 56 [56, 59, 59, 62, 62, 65, 65] Ns to WP. Work as for back from * to *.

ALL MACHINES

With K side facing, replace 89 [89, 95, 95, 99, 99, 105, 105] sts from lower edge of sleeve on to Ns gathering evenly. Using MT, K 1 row. Cast off.

FRONT INSERT

Using C, cast on 3 sts by hand. Set RC at 000. Using MT, K 1 row. Shape sides by inc 1 st at each end of next and every foll alt row until there are 45 [45, 43, 43, 41, 41, 39, 39] sts, then on every foll 3rd row until there are 73 [73, 75, 75, 77, 77, 79, 79] sts. K 2 rows. RC shows 86 [86, 90, 90, 94, 94, 98, 98].

SHAPE NECK

Using a length of MY, cast off centre 17 [17, 19, 19, 21, 21, 23, 23] sts. Push Ns at left to HP and cont on rem sts for first side. Cont to inc at right edge on every 3rd row from previous inc and, *at the same time,* dec 1 st at neck edge on next 9 rows, then on foll 8 alt rows, K 9 rows. Cast off rem 23 sts. With carriage at left, push rem Ns from HP to UWP. Finish to correspond with first side, reversing shapings by reading left for right.

CABLE INSERT

Push 15 Ns to WP. Counting from both edges, push the 3rd N back to NWP. Using C, cast on by hand. Set RC at 000. Using MT, K 6 rows. Cont in cable patt. Work until long enough to go along both shaped edges of front. Cast off.

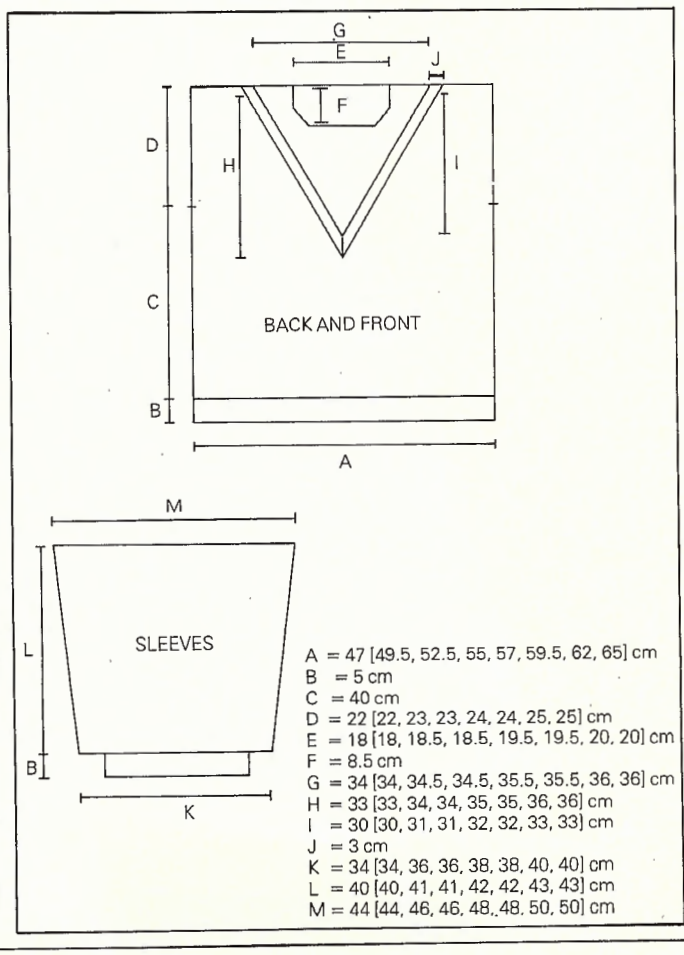
NECKBAND

MACHINES WITH RIBBER

With ribber in position and carriage at right, set machine for 1×1 rib. Using C, cast on 134 [134, 137, 137, 143, 143, 146, 146] sts in 1×1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–4/MT–4, K 21 rows. Transfer sts for st st. Using MT, K 1 row. Using WY, K a few rows and release from machine.

MACHINES WITHOUT RIBBER

Push 134 [134, 137, 137, 143, 143, 146, 146] Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT–1 and C, K 5 rows. Using MT–2, K 11 rows. Using MT–1, K 5 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed. Using MT, K 1 row. Using WY, K a few rows and release from machine.



A = 47 [49.5, 52.5, 55, 57, 59.5, 62, 65] cm
B = 5 cm
C = 40 cm
D = 22 [22, 23, 23, 24, 24, 25, 25] cm
E = 18 [18, 18.5, 18.5, 19.5, 19.5, 20, 20] cm
F = 8.5 cm
G = 34 [34, 34.5, 34.5, 35.5, 35.5, 36, 36] cm
H = 33 [33, 34, 34, 35, 35, 36, 36] cm
I = 30 [30, 31, 31, 32, 32, 33, 33] cm
J = 3 cm
K = 34 [34, 36, 36, 38, 38, 40, 40] cm
L = 40 [40, 41, 41, 42, 42, 43, 43] cm
M = 44 [44, 46, 46, 48, 48, 50, 50] cm

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join one edge of cable insert to front shaped edges. Mitre centre front. Sew insert to second edge of cable insert. Join shoulder seams. Set in sleeves between markers. Join side and sleeve seams. Join neckband seam. Pin neckband into position. Unravelling WY as required, backstitch through open loops of last row worked in MY.

MACHINES WITH RIBBER

Fold neckband in half to inside and catch down.

14 B TWO PANELLED TUCK STITCH SKIRT

PATTERN RATING

** Fairly easy for knitters with some experience

MACHINES

This pattern is suitable for standard gauge punchcard and electronic machines.

MATERIALS

C.Y.S. Algarve 4-ply Perlé.
1 [1, 1, 1, 2, 2, 2, 2] × 500g cones in Lilac (MY)
Elastic to fit waist.

GARMENT WEIGHT

Finished garment in second size weighs 435g.

The fibre content of this yarn is 100% Acrylic. For further details about local or mail order stockists, please write to C.Y.S., 4 & 6, St Mary's Gate, Rochdale, Lancashire OL16 1DZ.

YARN THICKNESS

This yarn is medium weight and knits as four ply

MEASUREMENTS

To fit hips 87 [92, 97, 102, 107, 112, 117, 122] cm, 34 [36, 38, 40, 42, 44, 46, 48] in.
Actual size 97 [102, 107, 113, 117, 122, 127, 133] cm, 38¼ [40¼, 42¼, 44½, 46, 48, 50, 52¼] in.
Knitted length to waistband 67 cm, 26½ in (adjustable).

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes

TENSION

26 stitches and 60 rows to 10 cm, 4 in measured over tuck stitch pattern (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used purl side of knitting as right side of garment. Two strands of yarn are used together throughout. Punch card, as shown, before starting to knit. Fill in pattern card, as shown, before starting to knit.

KNITMASTER ELECTRONIC MACHINES

Set pattern width indicator at 4. Place needle 1 cam at centre 0 and point cams 2 Ns in from each edge. Press button 1 (right light on) and button 2 (right light on 560 machines, left light on 580 machines).

BROTHER ELECTRONIC MACHINES

Position pattern each side of centre 0.

BACK AND FRONT ALIKE

Push 65 [68, 71, 75, 78, 81, 84, 88] Ns at left and 64 [67, 70, 74, 77, 80, 83, 87] Ns at right of centre 0 to WP. 129 [135, 141, 149, 155, 161, 167, 175] Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT and MY, K 10 rows. Insert card and lock on first row. K 2 rows. Set RC at 000. Release card and cont in tuck st patt. K 402 rows. Adjust length at this stage if desired. Using WY, K a few rows in st st and release from machine.

PRESSING

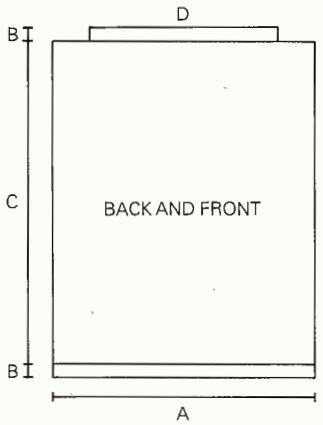
With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

WAISTBANDS (TWO ALIKE)

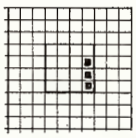
Push 96 [103, 110, 117, 124, 131, 138, 145] Ns to WP. With P side facing, replace sts from upper edge on to Ns gathering evenly. Unravel WY. Set RC at 000. Using MT–1 and MY, K 25 rows. Using WY, K a few rows and release from machine.

MAKING UP

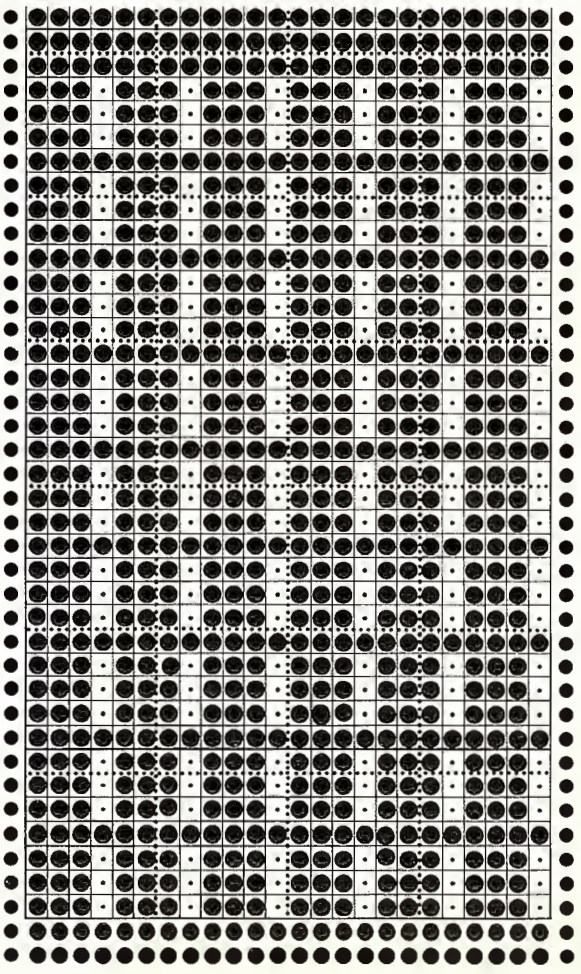
Join side seams, leaving an opening in waistband. Fold waistband in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in MY. Insert elastic into waistband and join ends securely. Close opening. Turn up 12 rows at lower edge and catch down loops on inside.



ELECTRONIC



A = 49.5 [51.5, 54, 57, 59.5, 61.5, 64, 67] cm
B = 3 cm
C = 67 cm
D = 34 [36.5, 39, 41.5, 44, 46.5, 49, 51.5] cm



IRIS BISHOP SPECIAL

My pair of designs for this month follow my favourite theme of florals and plant life. The all-over design is based on a photograph I took of some exotic foliage at the Royal Chelsea Flower Show, and the border design is based on a detail of Flemish tapestry. These designs are very suitable for cushions and furnishing fabrics as well as sweaters and other garments.

Yarns and colours

For the 'foliage' design, use bottle or sage green with cream. For the 'floral border' design use natural shades of green, brown and cream with white, dusky pink etc for the flowers. I like to mix wool and cotton, or a 'matt' with a smooth or lustrous yarn to give more depth and interest to the surface of the designs.

'Foliage'

Knit welts etc. in green. Knit as a straightforward Fair Isle design, with white in feeder 1 and green in feeder 2.

'Floral border'

This design can be used as a single border on a plain garment, or repeated to create an 'all-over' design, as illustrated. For the 'all-over' design: Knit welts etc, in dark green (or brown etc). Starting at row 1 of card, knit in Fair Isle as follows:-

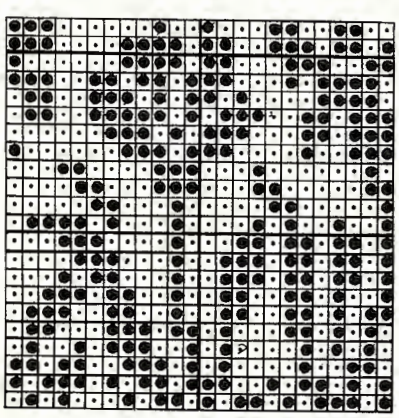
* rows 1-14 = dark green in feeder 1, beige or light green in feeder 2.
15-22 = dark green in feeder 1, white in feeder 2.

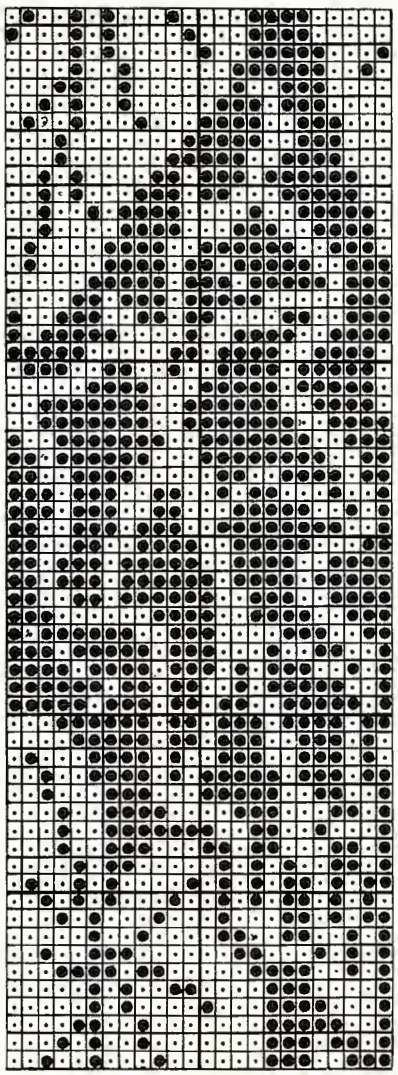
Reset card to row 1 and lock. Knit 6 rows plain in dark green and 2 rows plain white (or cream). Release card and knit as follows:-

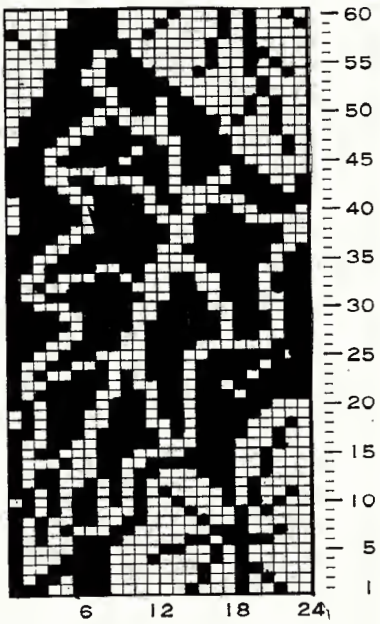
rows 1-14 = white in feeder 1, dark green in feeder 2.
rows 15-22 = white in feeder 1, dusky pink (or other 'flower' colour) in feeder 2.

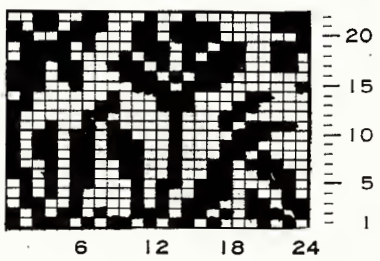
Reset card to row 1 and lock. Knit 6 rows plain white and 2 rows plain dark green. Release card and knit from *.

Note: I like to turn card over to 'blank' side (ie to reverse motif direction) on each alternate repeat of the design, so that flowers are not in straight lines, vertically.









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IRIS BISHOP

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U.S.A.: The Knitting Machine Centre, P.O. Box 150145, Cincinnati, Ohio 45215.

QUESTION TIME

New contributor Pat Coulston continues her open forum in which are aired some of the questions she has heard so often in her teaching career. The answers often reflect the variety of ways that knitters have found around a problem.

Pat Coulston

Q. Our first question concerns the shaping and sewing up of shoulder seams.

"I have only just started machine knitting and would like to know the very easiest way of shaping for the shoulders."

A. *"When you reach the shoulders at the carriage side, cast off using behind the sinker post method, the required number of stitches, say, ten stitches for the next six rows. I am not mentioning the neck shaping at all. Do this with both the front and the back.*

When you come to sew the shoulders up, pin the front and back together, right sides together (remember, you usually do one shoulder first, then the neckband and then the other). Now take a ruler and lay it in a slight diagonal line beneath the line of casting off 'steps' and draw a line with tailor's chalk or similar from the neck edge to the shoulder edge. You can then backstitch neatly with tiny stitches along this line or sew along the line with the sewing machine. Don't sew directly beneath the 'steps' as this gives an irregular and ugly line.

Another way is not to shape the shoulders at all. Knit straight up until the neck shaping is complete. Cast off the shoulders in a straight line.

When sewing up, pin the front and back together. At the armhole edge, mark 2 cm down from the top. Take a ruler and place it from this mark to the neck edge. Draw a line from the 2 cm mark to the neck edge and again, sew along this line. Allow the two flaps to bend back and very lightly catch down. This will not be noticeable and this is an excellent method when you are doing a complicated pattern.

These are two methods that are easy and do not involve any shaping which uses the 'holding position' needles.

Q. "What do you mean by casting off behind the sinker posts?"

A. *"It is a method that does not leave the cast off stitches bunched together but spread out and this is how it is done.*

*Working at the carriage end, remove the yarn from the feeder. Take the single transfer tool and place it on to the end needle. Bring that end needle out as far as it will come then push it back, so the stitch lands on the transfer tool. Take this stitch **behind** the sinker post and place the transfer tool into the hook of the next needle. Pull that needle right out and take it back a little way. Wrap the yarn around the needle in the hook and take the needle right back to B position. Always take the end stitch behind the sinker post. Repeat this procedure until you have cast off as many stitches as necessary. Knit one row. Bring the end needle out (at the cast off end) and unhook the work that is caught around the sinker posts."*

Q. "How about the 'holding method' for shoulder shaping you mentioned?"

A. *"We'll look at one method of shoulder shaping, with two ways of finishing them off.*

Method of shaping.

Pretend you have the front of your garment on the machine and are working on just the right-hand side (having completed the neck shaping).

The carriage is at the left and we are assuming you have forty needles in work for the shoulder. Bring the end ten needles opposite the carriage to HP. Set carriage for hold and knit one row. Wrap the yarn. Knit one row. Repeat by bringing out another ten needles. Knit one row and wrap the yarn. Do this again. You now have ten needles left in B position. Bring those ten needles to HP. Set carriage for normal and knit one row.

You can now either:
a) Cast these stitches off and sew the shoulder seam by hand, or:
b) Remove them on waste yarn.
a) After casting off the stitches by hand, sew the shoulder seam as we described in answer to the first question today.
b) If you remove the shoulder stitches on waste yarn, then the front and back will be returned to the machine and cast off as follows:

With the right side of work facing you, return the stitches from the back to the machine. With the wrong side of work facing you, return stitches from the front to the same needles. Knit one row at your main stitch size and cast off behind the sinker posts.

To get an even neater seam: with right side of work facing you, return the stitches from the back to the machine. With wrong side of work facing you, return the stitches from the front to the same needles, but leave both the stitches in the latch.

Now, let the first set of stitches go behind the latch and pull the second set of stitches through the first set. You now only have one stitch on each needle.

Cast off behind the sinker posts."

Q. "How and why do you 'wrap the yarn'?"

A. *"There are two methods. 1) is the method mentioned in the above question. Imagine with me that you have forty stitches in work and the carriage is at the right-hand side of the knitting. Set your carriage to 'hold' (so that when the needles are brought right forward, they do not knit back when the carriage is taken across).*

Bring out ten needles at the left end of the machine and knit one row. Knit back again. If you then knitted about ten normal rows and examined your work, you would see a little hole where you 'held' the stitch. This would look very ugly so – we must prevent it.

Back to the beginning. Carriage at the right and bring the same ten needles to hold. With carriage set for hold again, knit one row. Now, pick up the long length of yarn that is lying on top of the 'hold' needles and place it under the first needle that is in hold (next to a needle in WP). Knit back to the right. Bring ten more needles to hold and repeat. Set the carriage to normal and knit ten rows. You will now see that you have no holes at all where you 'held' the needles.
2) 'automatic wrap'. With carriage at the right, bring nine needles to hold. Knit one row. Bring up the first needle to HP (next to the needle in WP so now ten needles are in HP) and knit back. This method automatically 'wraps' the yarn. The finish is the same, but this latter way is quicker, especially when shaping in a sideways skirt."

"Knit something that will hide your big timmy? I'm not sure if I can knit a crinoline, dear."

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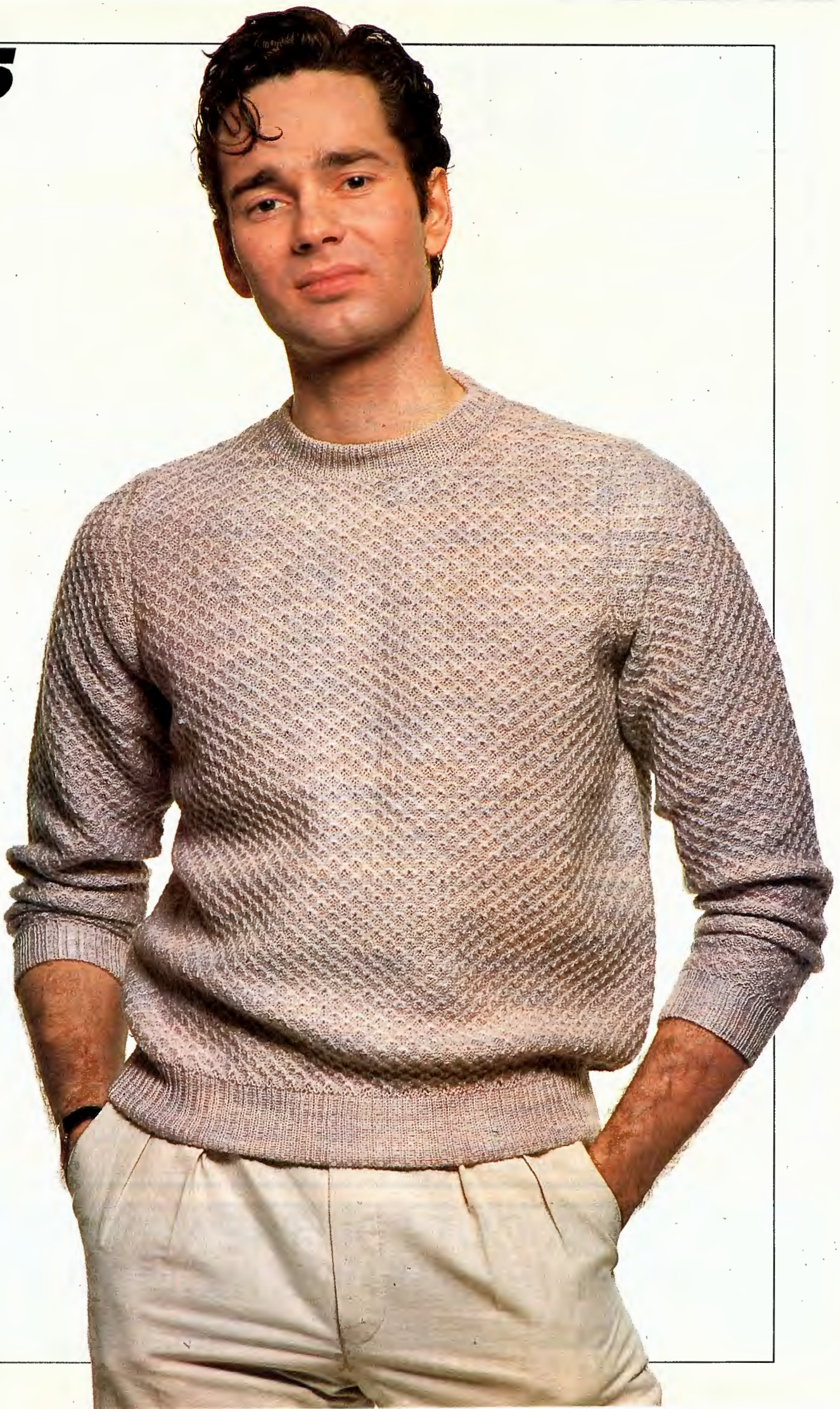


15 HIS 'N' HER TUCK STITCH SWEATER

PATTERN RATING

* Easy to knit

MACHINES

This pattern is suitable for standard gauge punchcard machines.

MATERIALS

Spectrum Linaria
1 [1, 1, 1, 2, 2, 2, 2, 2, 2] × 500g cones in beige mix (MY).
GARMENT WEIGHT
Finished garment in fourth size weighs 345g.

The fibre content of this yarn is 100% Acrylic. For further details about local or mail order stockists, please write to Spectrum Yarns Limited, Bankwell Road, Milnsbridge, Huddersfield, West Yorkshire HD3 4LU.

YARN THICKNESS

This yarn is medium weight and knits as four ply

MEASUREMENTS

To fit bust or chest 87 [92, 97, 102, 107, 112, 117, 122, 127, 132] cm, 34 [36, 38, 40, 42, 44, 46, 48, 50, 52] in.
Actual size 95 [100, 105, 110, 115, 120, 125, 130, 135, 140] cm, 37½ [39½, 41¼, 43¼, 45¼, 47¼, 49¼, 51¼, 53¼, 55¼] in.
Length to shoulder 58 [60, 61, 62, 65, 66, 67, 69, 70, 71] cm, 23 [23½, 24, 24½, 25½, 26, 26½, 27, 27½, 28] in.
Sleeve seam 43 [44, 44, 44, 46, 46, 46, 47, 47, 47] cm, 17 [17¼, 17¼, 17¼, 18, 18, 18, 18½, 18½, 18½] in.

Instructions are written for the smallest size, larger sizes follow in square brackets. If only one figure is given, it applies to all sizes.

TENSION

24 stitches and 60 rows to 10 cm, 4 in measured over tuck stitch (tension dial setting approximately 7).

For perfect results, please check your tension carefully.

ABBREVIATIONS

See page 4.

KNITTING NOTES

We used purl side of knitting as right side of garment. Punch card, as shown, before starting to knit.

BACK

Insert card and lock on first row. Push 58 [61, 64, 67, 70, 73, 76, 79, 82, 85] Ns at left and right of centre 0 to WP. 116 [122, 128, 134, 140, 146, 152, 158, 164, 170] Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows, ending with carriage at left. Set RC at 000. Using MT–2 and MY, K 55 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *. Set RC at 000. Using MT, K 1 row. Release card and cont in tuck st. K 197 [197, 197, 197, 203, 203, 203, 203, 203, 203] rows. RC shows 198 [198, 198, 198, 204, 204, 204, 204, 204, 204] and work measures 39 [39, 39, 39, 40, 40, 40, 40, 40, 40] cm, 15¼ [15¼, 15¼, 15¼, 15¾, 15¾, 15¾, 15¾, 15¾, 15¾] in.

SHAPE ARMHOLES

Cast off 4 sts at beg of next 2 rows. Dec 1 st (2 sts in) at each end of every alt row until 82 [88, 92, 96, 102, 106, 110, 116, 120, 124] sts rem, then on every foll 4th row until 78 [82, 86, 91, 94, 98, 102, 106, 110, 114] sts rem **. K 78 [86, 90, 94, 102, 106, 110, 118, 122, 126] rows. RC shows 312 [324, 330, 336, 354, 360, 366, 378, 384, 390] and work measures 58 [60, 61, 62, 65, 66, 67, 69, 70, 71] cm, 23 [23½, 24, 24½, 25½, 26, 26½, 27, 27½, 28] in.

SHAPE SHOULDERS

Cast off 3 [4, 4, 4, 4, 4, 4, 5, 5, 5] sts at beg of next 10 rows and 6 [2, 3, 4, 6, 7, 8, 4, 5, 6] sts at beg of foll 2 rows. Using WY, K a few rows in st st over rem 36 [38, 40, 43, 42, 44, 46, 48, 50, 52] sts and release from machine.

FRONT

Work as for back to **. K 48 [50, 54, 58, 60, 64, 68, 70, 74, 78] rows. 30 [36, 36, 36, 42, 42, 42, 48, 48, 48] rows less have been worked to shoulder than on back.

SHAPE NECK

Note patt row on card. Using nylon cord, K 46 [48, 51, 54, 56, 59, 62, 64, 67, 70] sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. Dec 1 st (2 sts in) at neck edge on every alt row, until 21 [22, 23, 24, 26, 27, 28, 29, 30, 31] sts rem. K 8 [12, 12, 12, 18, 18, 18, 22, 22, 22] rows.

SHAPE SHOULDER

Cast off 3 [4, 4, 4, 4, 4, 4, 5, 5, 5] sts at beg of next and foll 4 alt rows. K 1 row. Cast off rem 6 [2, 3, 4, 6, 7, 8, 4, 5, 6] sts. With carriage at right, unravel nylon cord over 14 [14, 16, 18, 18, 20, 22, 22, 24, 26] Ns at right, bringing Ns back to NWP. Using WY, K a few rows in st st and release from machine. With carriage at right, unravel nylon cord over rem Ns, bringing Ns back to WP. Lock card on number previously noted. Take carriage to left without knitting. Release card and cont in tuck st. Finish to correspond with first side, reversing shapings.

SLEEVES

Insert card and lock on first row. Push 24 [25, 27, 28, 28, 30, 31, 31, 33, 34] Ns at left and 23 [25, 26, 28, 28, 29, 31, 31, 32, 34] Ns at right of centre 0 to WP. 47 [50, 53, 56, 56, 59, 62, 62, 65, 68] Ns. Work as for back from * to *.

2ND, 5TH AND 8TH SIZES

Inc 1 st at each end.

1ST, 3RD, 6TH AND 9TH SIZES

Inc 1 st at right edge.

ALL SIZES

48 [52, 54, 56, 58, 60, 62, 64, 66, 68] sts. Set RC at 000. Using MT, K 1 row. Release card and cont in tuck st. Shape sides by inc 1 st (2 sts in) at each end of every 12th [12th, 12th, 11th, 11th, 11th, 10th, 10th, 10th, 9th] row until there are 82 [86, 90, 94, 98, 102, 106, 110, 114, 118] sts. K 17 [23, 11, 18, 19, 8, 19, 15, 5, 20] rows. RC shows 222 [228, 228, 228, 240, 240, 240, 246, 246, 246] and work measures 43 [44, 44, 44, 46, 46, 46, 47, 47, 47] cm, 17 [17¼, 17¼, 17¼, 18, 18, 18, 18½, 18½, 18½] in.

SHAPE TOP

** Cast off 4 sts at beg of next 2 rows. Dec 1 st (2 sts in) at each end of every 4th row until 44 [40, 42, 44, 40, 42, 44, 40, 42, 44] sts rem, then on every foll alt row, until 24 sts remain. Cast off **.

NECKBAND

Join right shoulder seam. Push 116 [122, 128, 134, 140, 146, 152, 158, 164, 170] Ns to WP. With P side facing, pick up 26 [28, 29, 30, 32, 33, 34, 36, 37, 38] sts down left side of neck, 14 [14, 16, 16, 18, 18, 20, 22, 22, 24, 26] sts across front, inc 4 sts evenly, 26 [28, 29, 30, 32, 33, 34, 36, 37, 38] sts up right side of neck and 36 [38, 40, 42, 42, 44, 46, 48, 50, 52] sts across back neck, inc 10 [10, 10, 10, 12, 12, 12, 12, 12, 12] sts evenly and place on to Ns. Unravel WY. Set RC at 000. Using MT and MY, K 1 row. Transfer every 3rd st on to adjacent N and push empty Ns to NWP. Using MT–1, K 5 rows. Using MT–2, K 15 rows. Using MT–1, K 4 rows. Push Ns from NWP to WP and place loop from row below adjacent st on to empty N. Using MT, K 2 rows. Using WY, K a few rows and release from machine.

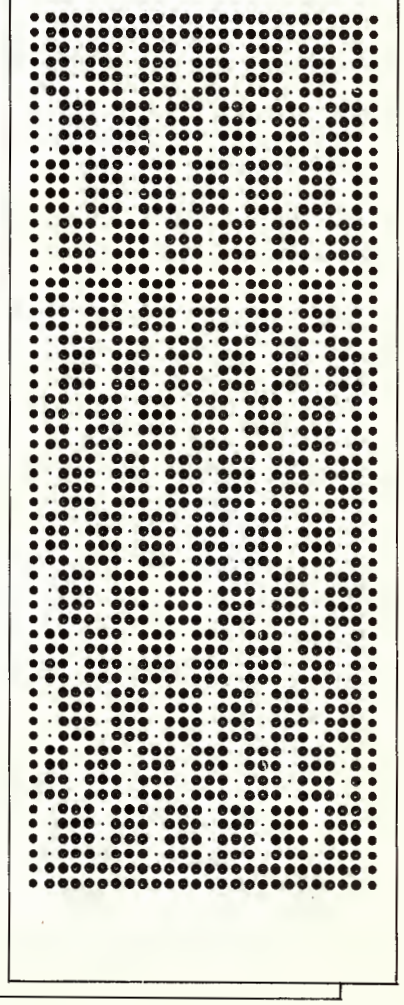
PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join left shoulder, neckband, side and sleeve seams. Set in sleeves. Fold neckband in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in MY.

82►



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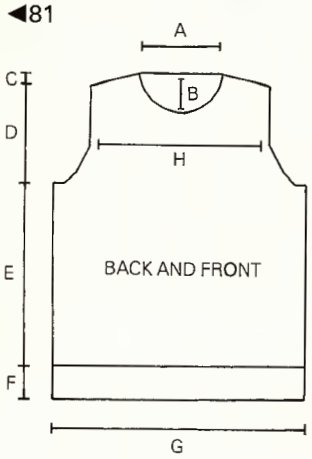
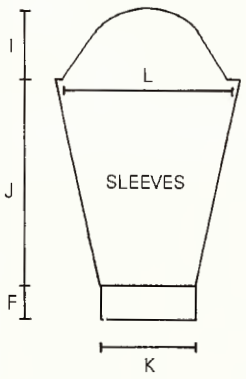




A = 15 [15.5, 16.5, 17.5, 17.5, 18, 19, 20, 20.5, 21.5] cm
B = 7 [8, 8, 8, 9, 9, 9, 10, 10, 10] cm
C = 2 cm
D = 19 [21, 22, 23, 25, 26, 27, 29, 30, 31] cm
E = 33 [33, 33, 33, 34, 34, 34, 34, 34, 34] cm
F = 6 cm
G = 47.5 [50, 52.5, 55, 57.5, 60, 62.5, 65, 67.5, 70] cm
H = 32.5 [34, 35.5, 37.5, 39, 40.5, 42.5, 44, 45.5, 47.5] cm
I = 13.5 [15.5, 16.5, 17.5, 19.5, 20.5, 21.5, 23.5, 24.5, 25.5] cm
J = 37 [38, 38, 38, 40, 40, 40, 41, 41, 41] cm
K = 20 [21.5, 22.5, 23, 24, 25, 25.5, 26.5, 27.5, 28] cm
L = 34 [35.5, 37.5, 39, 40.5, 42.5, 44, 45.5, 47.5, 49] cm

ELECTRONIC DESIGNS

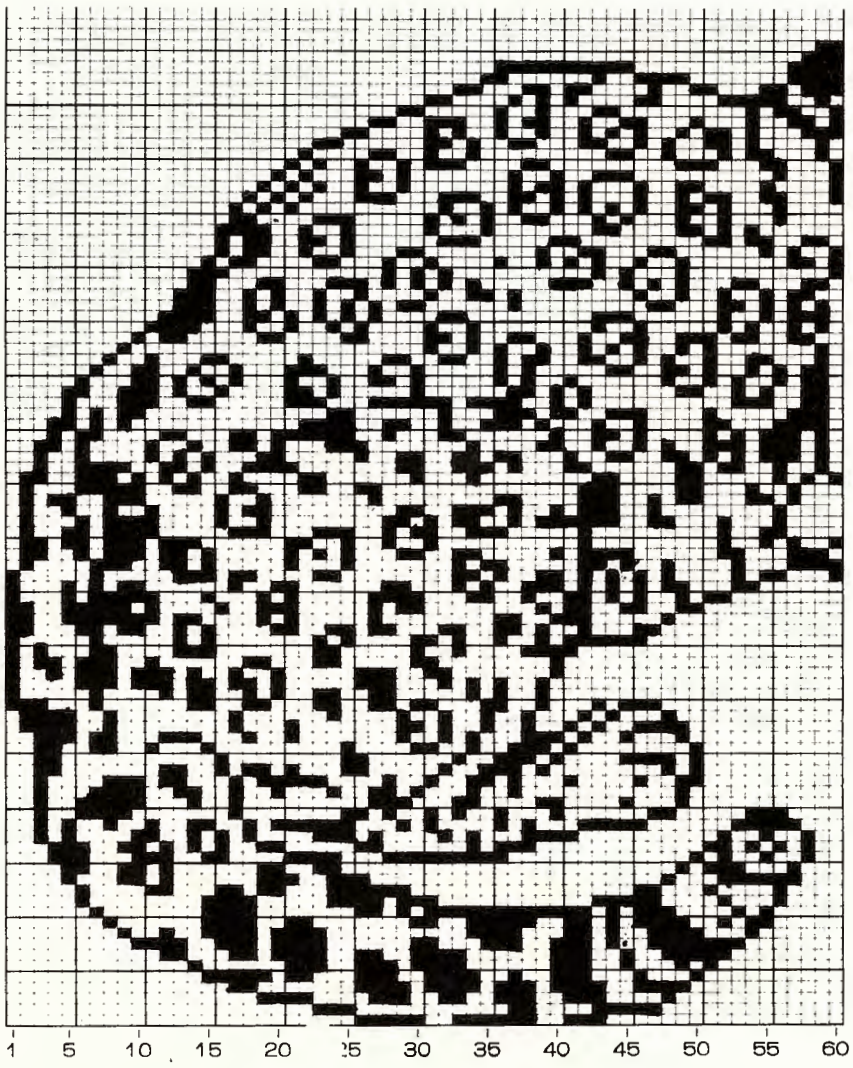
Last month's article talked about using dark main colours yet still doing the design in a dark colour just by changing the background to a light colour with a small pattern to soften the effect. The garment this month uses much the same format but with an added technique.

Lavinia Lawry-Johns

It is not new and can be applied by 24 stitch and 40 stitch users to increase the scope of their machines. For those with 200 stitch pattern capacity it is just a question of copying the design on to two sheets and programming correctly.

For those who have the 60 stitch repeat machines, with just a little more effort and know-how you can use the larger 'Lurking Leopard' design and in the process increase confidence and programming ability, the one in the picture was done with this technique (I had it converted to the "i" afterwards). You simply do it in two halves and join it up the middle. Fill out pattern cards one and two. Make sure card two follows on from the first with both cards facing the same side. If you make a mistake and fill in card two on the wrong side don't rub out, just programme with the reverse switch on. At this stage I suggest you do a dry run, that is with no yarn in the machine, to make sure you have the pattern and positioning correct. The division is not in the middle of the bed but, to balance the pattern, it is to one side.

After deciding where your pattern is going to start, programme the small pattern on card one and use it to change the background colour by putting the paler colour into feeder one and knit the eight rows. Knit about 20 rows plain and programme card



Hat, THE HAT SHOP. Trousers, NEXT.

84▶

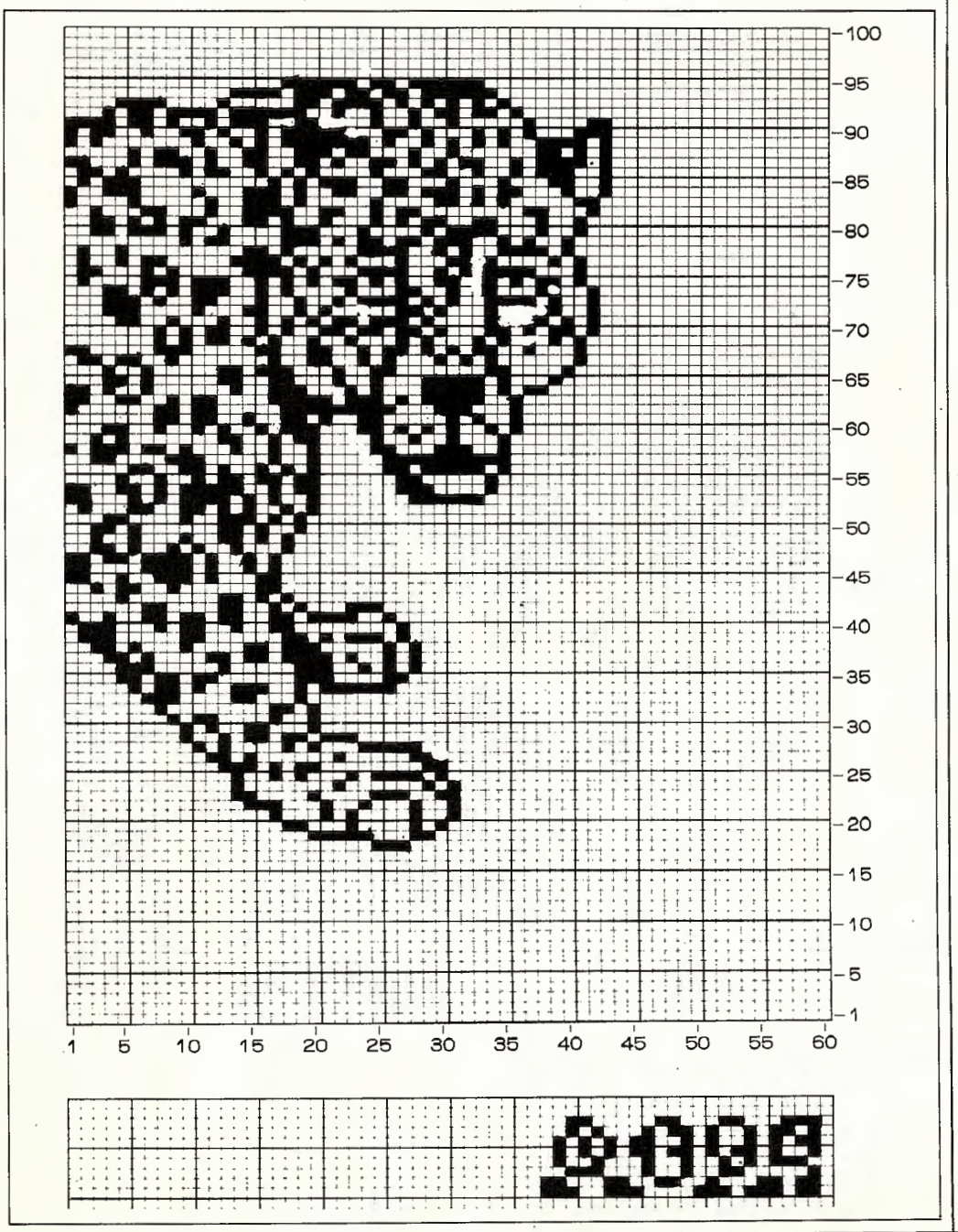
◀82

one by following the programme instructions further on. Do a slip row to see if the pattern is in the right position. Knitmaster users can see the Fair Isle stitches coming forward as the carriage is passed across. Return pattern to start row. Put all needles from mark nine at right out of action (o.o.a). The first card is worked only on the stitches to the left. Make a note of the row number. Add a stitch on at the division side by doubling up on the o.o.a stitch and casting an extra stitch on at the working side. This will help when ladder stitching the two patterns together later on. I managed to join them up without the extra stitch on both join edges, not because I wanted to but because I forgot them. Continue to work the motif to the end and knit four plain rows to balance the other side. Put this side o.o.a. Put card two in and programme following the instructions further on. The pattern on card two does not start until row 18. You could knit these rows plain and programme to start on this row. Do a check row to make sure the foot starts in the right position. G34 or right 34, three Fair Isle stitches. Add extra stitch as before. Work the motif until end of pattern row 95. You should have an equal amount of rows on both sides and a nice big slit to join up later. To save sewing up I started the division 18 rows up on the first card. Bring all stitches into work and knit plain until neck shaping. I put the small pattern at the top of the shoulder so that the dark colour joined the back which is all dark. This meant reversing the colours so the background colour was the darker one and doing two plain rows to finish.

For the sleeves I wanted to balance the material so that I had enough main colour to finish the garment. With that thought the sleeves were done half and half. Cuffs, main colour 60 stitches, 40 rows. Sleeves, main colour 80 stitches waste yarn so that there is fullness in wrist. Working increase (one stitch each side every fourth row or follow your own pattern) continue in main colour until the same row as the front and repeat colour change by using eight row pattern. You are now working in the contrast colour. Continue shaping until the last eight rows and bring in Fair Isle again.

When all the knitting has been completed or when the garter carriage is busy doing the cuffs, the front patterns can be sewn together using the ladder or mattress stitch method. if you have never done this before and cannot get someone to demonstrate, don't panic. It is quite simple. With right side facing you draw a background thread through to the right side at the point at the top of the design where the extra stitches need to be folded in so they do not show. Take a bar one side then the other and pull together matching the pattern. Halfway down, stop and start at the bottom to make sure you don't get left with a bulge where it shows.

Although this particular garment was knitted in Shetland, you could do it in a lighter weight for summer with shorter sleeves and a different neckline for evening wear. Or maybe a heavy cotton for the men leaving out the Fair Isle.



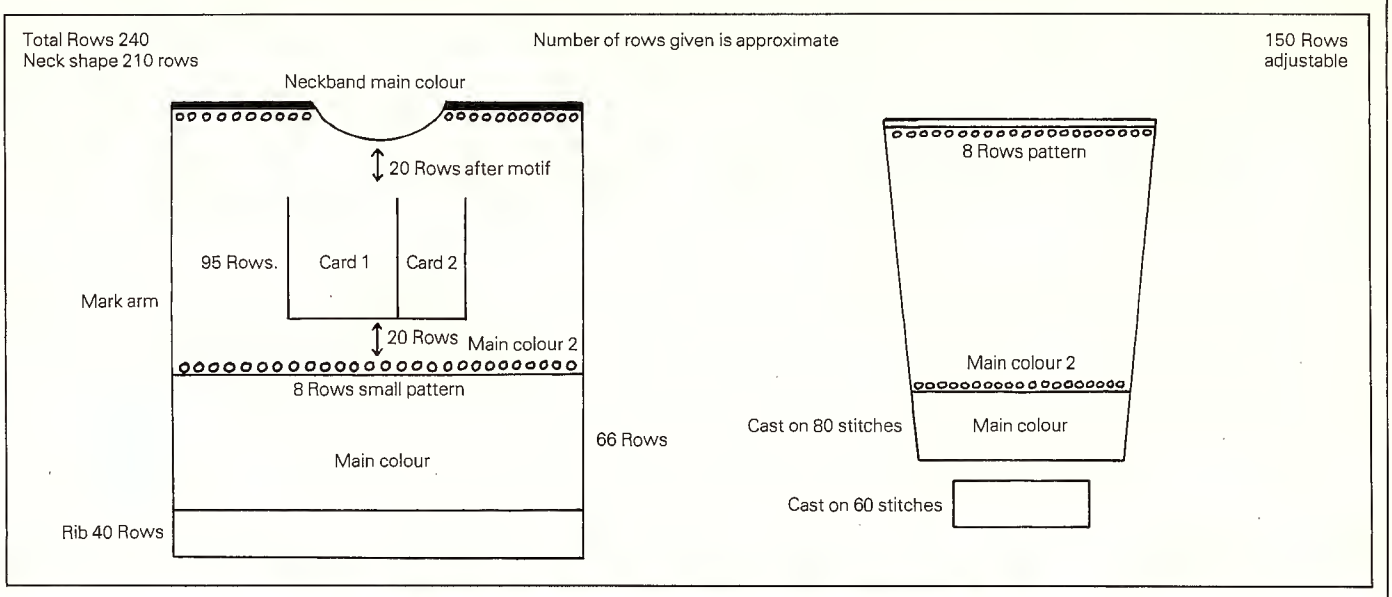
MACHINES
Electronic 901, 940, 950, 950i. Knitmaster.

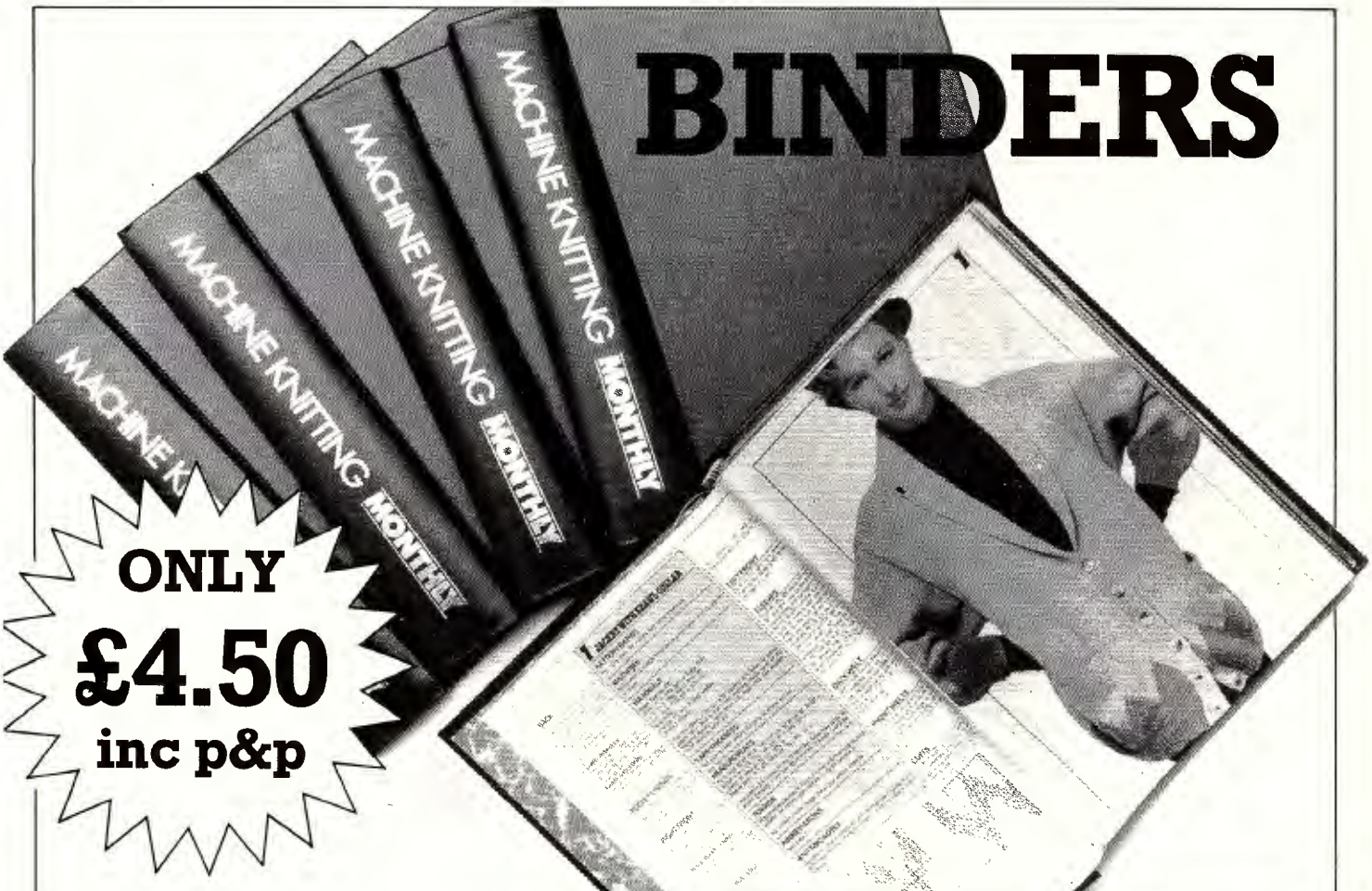
MATERIALS
4-ply Shetland or 4-ply of your own choice.

COLOUR SUGGESTIONS
i) Main colour Black. 2. Fawn or Camel.
ii) Main colour Black. 2. White (Snow Leopard).
iii) Main colour Sand. 2. Cream. 3. Motif Black.

PROGRAMS
950i
Selection switch upper position.
Other E.
Card reader 777.
Card No:
2 cards horizontal.
1 card vertical.
Programme card 1 and 2.
F.N.P. Y51.
Y51.
G53.

950 AND OTHERS FOLLOW THE METHOD IN THE TEXT.
950 selection switch upper position.
CARD 1
1.1
2.95
3.1
4.60
5.F.N.P.Y51
6.Y51
7.G9
CARD 2
1.1
2.95
3.1
4.60
5.F.N.P.G10
6.G10
7.G45 or 60





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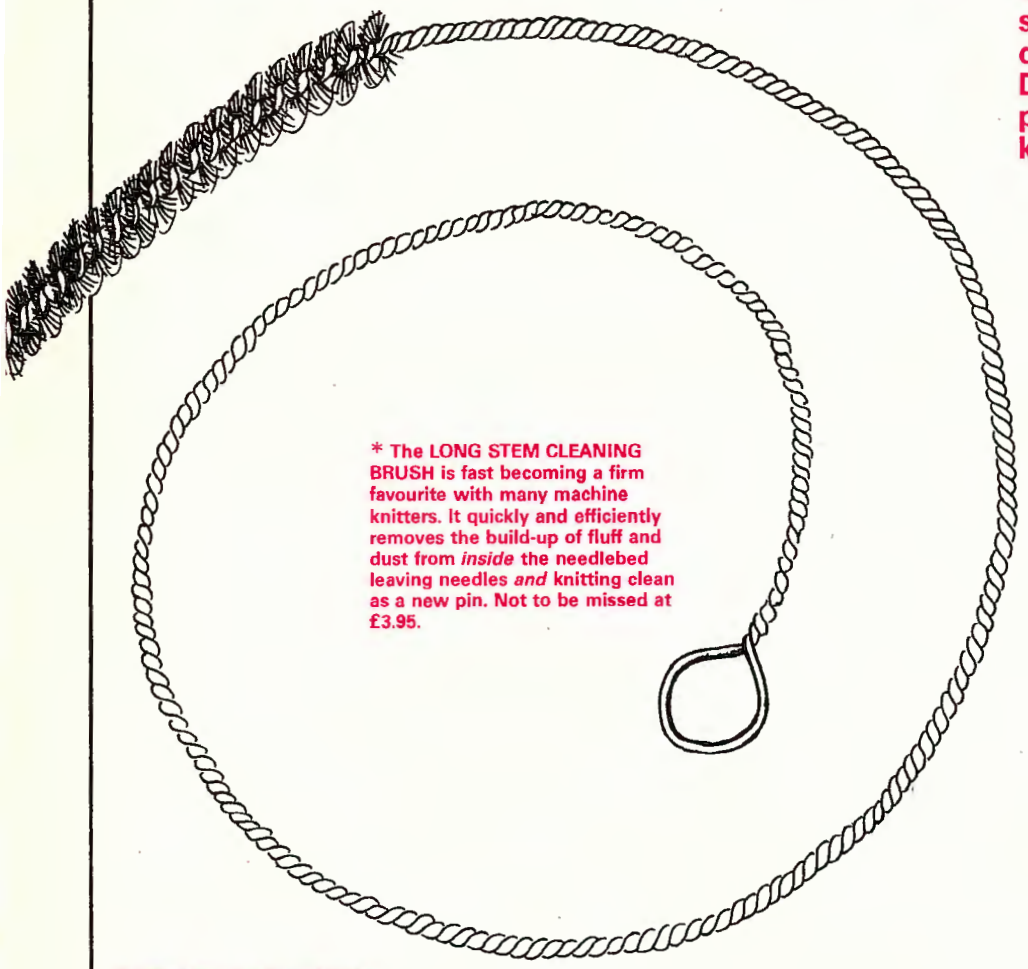

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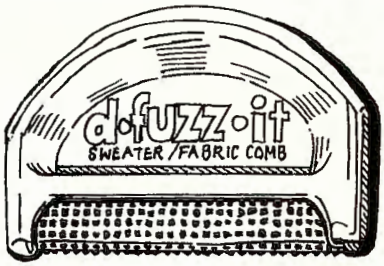

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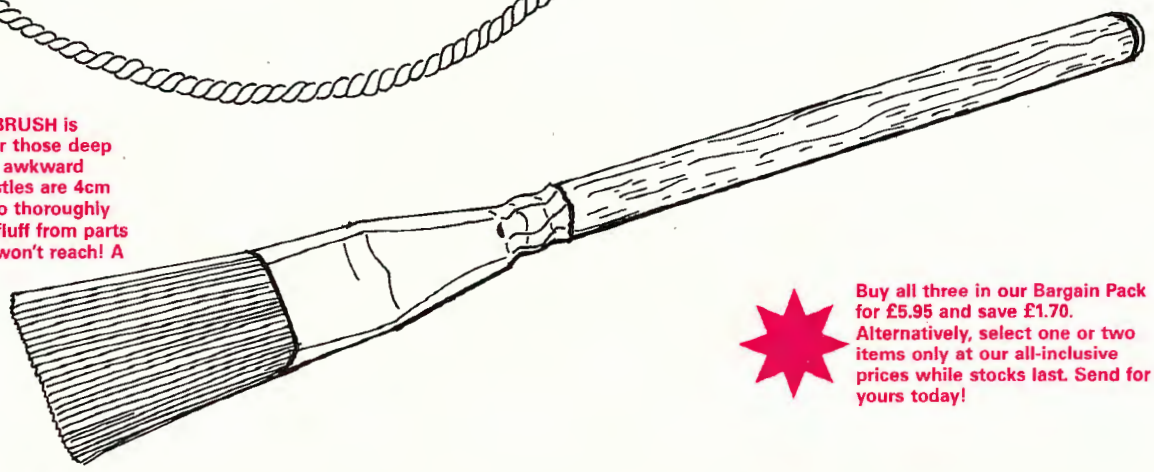

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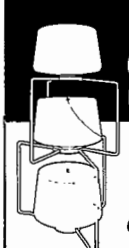

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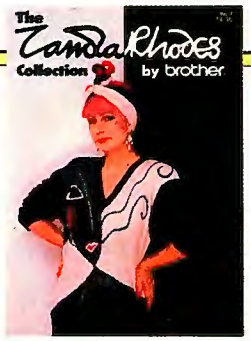


THE ZANDRA RHODES COLLECTION BY BROTHER

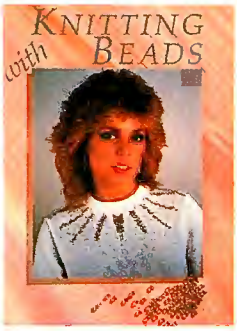
£4.95

Here are patterns for 15 stunning outfits by Zandra Rhodes – one of Britain's top designers. Beautiful, dateless and completely original – to buy clothes like this would cost a fortune, this is your chance to make them at a fraction of the cost. Designed to make full use of facilities available to Brother machine knitters there are patterns for dresses, sweaters and suits for both day and evening wear. Each pattern is illustrated in full colour with complete instructions, diagrams, graphs and punchcards.

KNITTING WITH BEADS

£3.99

Knitting beads give a whole new, and very attractive, dimension to machine knits. The 30 designs in this book show just how versatile they are. It takes simple shaped, easy-to-knit sweaters and decorates them with motifs, all over designs and as highlights on both lacy and cable knits. There are instructions for the sweaters plus full details of the bead knitting techniques. The patterns are illustrated with colour photographs, and are complete with easy to read instructions and clear pattern piece diagrams.



THE ART OF MOTIF KNITTING AND 24 STITCH DESIGN

By Kathleen Kinder

£6.95

Everything you need to know about motif knitting from a well-known expert. Kathleen Kinder takes the reader clearly through all the stages of designing and knitting their own motifs: ideas for choosing a subject, transferring it onto a punchcard, repeat patterns, positioning on a garment, background design, colours and colour changing. Plus 90 original patterns featuring a wide range of designs from ballerinas to badgers, acorns to dolphins – each showing a photograph of the knitted fabric and appropriate punchcard.

ELEGANT MACHINE KNITS

By Valerie Carter

£7.95

A whole wardrobe of machine knits at your fingertips. There are 30 patterns for dresses and suits for every season of the year – stylish swirly-skirted summer suits, cosy coats for winter, sophisticated evening wear and elegantly casual clothes for daytime – they're all here. The book includes an introduction on special techniques used, full colour photographs of all the patterns (suitable for leading brands of punchcard machines) and each pattern is illustrated with a black and white photograph, sized pattern piece diagrams, punchcards where appropriate and full, clear instructions.

THE PAT COOK COLLECTION FOR DUO 80 MACHINES

£3.95

Sweaters (for him and her), coats, suits and dresses – this book contains 13 patterns for colourful, eye-catching clothes. The sweaters range from 'hobby' ones – snooker and photography – flowered and textured feminine designs, casual and sophisticated suits and dresses through to a truly stunning 'unicorn' full-length coat. Each of the patterns are photographed in colour and there's a pull-out section of graphs and punchcards to supplement the instructions.

MACHINE KNITTING Monthly BOOK SHELF

Qty	Title	Price
	Zandra Rhodes @ £4.95	
	Knitting with Beads @ £3.99	
	Motif Knitting @ £6.95	
	Elegant Knits @ £7.95	
	Pat Cook Duo 80 @ £3.95	
		Total

All prices include P&P
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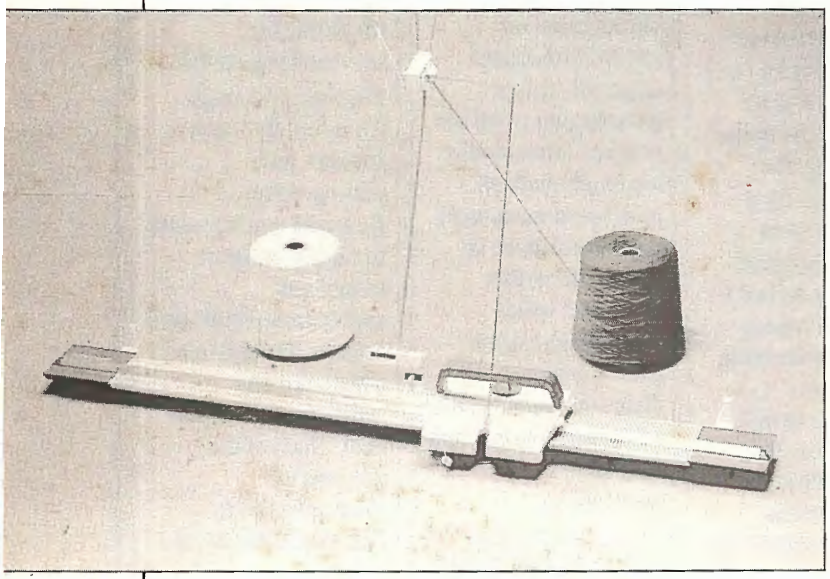

but also . . . YARNS! YARNS! YARNS! a fabulous £50 worth all from AMBERYARN

There's sure to be a big entry from you all for this month's double prize from Amberyarn. They will be giving the lucky winner the chance to choose yarns from their super range which offers a colourful choice from rich mohairs to pastel cottons. To knit your chosen yarn they are also presenting a super New Home Swissknitter, a popular standard gauge machine on which one can knit tuck stitch and Fair Isle, lace patterns and intarsia in two, three or four ply yarns. The machine has 179 needles, double yarn tensioner, row counter and carriage with 29 stitch size settings and comes complete with instruction book and audio tape and accessories. If you wish it were yours, just read on . . .

OH TO BE IN ENGLAND

Even before the advent of *Machine Knitting Monthly* – now so firmly established midst the rural delights of Royal Berkshire – the inspired sentiments foreshadowed by those opening words, enthused over the boundless joy of those fortunate enough to be domiciled in this sceptred isle, this blessed plot.

Well – Spring and thoughts of Easter are with us again – Mother Nature wakes happily from her Winter's sleep, the land is radiant with the stirring of new hope, rebirth, the blossoming of flowers, the bursting of buds, the Community Charge and privatised water. But even greater joy comes assuredly from the announcement on this page that Amberyarn has plans afoot to compound those blessings by awarding this month's prize winner a superb Swissknitter by New Home and yarns worth £50.

All you have to do, fellow joyous creature, is to have your postcard correctly identify the message spelled by the third vertical of the completed grid. Then, provided it's your card that's picked from our evergreen and ozone friendly mailbag on May 31st, Old Father Time (me) will ensure that Amberyarn's machine and yarn wings its way to your very own, very blessed plot – before Mother Nature dozes off again.

CLUES

1. Reshape a *lead door* to the land of gold
2. They may have flown *his* way to *Paris* in the past
3. Perspiring garments?
4. Quietly elegant
5. Direction of the prevailing after Lent, maybe
6. What the Artist might wear for the Spring showers?
7. Appropriate dress for a light opera?
8. Munition factories belonging to the League Champions?
9. Sensible to give Capone a fixed allowance
10. Where a *weary hen* may decide to rest
11. Is *lace tied* into this definition of fabric?
12. Lift in America

COMPETITION RULES

1. Only one entry per postcard will be accepted. You should send your postcard to May Competition, *Machine Knitting Monthly*, 3 Bridge Avenue, Maidenhead, Berkshire SL6 1RR.
2. This competition is open to residents of the U.K. only, except the employees of *Machine Knitting Monthly*, the magazine's typesetters, printers, distributors, employees of this month's competition sponsor and their relatives.
3. The closing date is 31st May 1990. Entries received after that date will not be considered and no responsibility can be accepted for entries lost or delayed in the post.
4. No cash alternative will be offered.
5. The winner will be the first correct entry drawn from our postbag after the closing date.
6. The winner will be notified in writing and the results will be published in a future issue of *Machine Knitting Monthly*.
7. The Editor's decision is final and no correspondence will be entered into regarding the competition.

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